CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.

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CONSTRUCTION NEWS.

Plans and Specifications on File.

(* *denotes that this work is advertised in Engineering News.*)

The following plans (P.) and Specifications (S.) are on file (for reference only unless otherwise noted) at office of The Engineering News Publishing Co., 220 Broadway, New York.

Bids close.	Work.	See issue.
10- 2	Sewer, Charleston, S. C.....(S.)	9-16
10- 4	Superstructure, Toronto, Ont. (P. & S.)	9-23
10- 4*	Drains, Boston, Mass.. (P. & S.)	9-23
10- 5*	Water-works, Marietta, Ga..(S.)	9- 9
10-13	Electric wiring, Fort Myer, Va. .....(P. & S.)	9-23
10-16	Power plant alterations, Philadelphia, Pa. .....(S.)	9-30
10-18*	Riprap groins, Mobile, Ala. (S.)	9-23
10-21*	Pump, Kansas City, Mo.....(S.)	9-23
10-28*	Dike, Casper, Wyo.....(S.)	9-16
11-10*	Pumping engine, Dallas, Tex.(S.)	9-23
12- 1*	Heating, ventilating, New Zealand.....(P. & S.)	9- 9

List of Contracts Pending.

LIGHT, HEAT AND POWER PLANTS.

10- 1 Engine, Lesueur, Minn..... 9-30
10- 4 Elec. light plant, Ryan, Okla.. 9-30
10- 4 Wiring, etc., Rochester, N. Y.. 9-30
10- 5 Electric plant, etc., Detroit, Minn. 9-30
10- 5 Power plant mach., Wash., D. C. 9-30
10- 5 Street lighting, Wilmington, Del. 9-16
10-13 Electric wiring, Fort Myer, Va.. 9-23
10-16 Power plant alterations, Philadelphia, Pa. 9-30
10-19 Wiring, Fort Lincoln, N. Dak.. 9-30
10-20 Lighting, New Albany, Ind..... 9- 2
10-28* Electric motors, Toronto, Ont... 9- 2

BRIDGES.

9-30 Superstructure, Indiana, Pa..... 9-30
10- 1 Bridge repair, Reading, Pa..... 9-23
10- 1 Bridge, Capitol Hill, Okla..... 9-30
10- 2* Bridge material, Aurora, Ill..... 9-16
10- 4 Superstructure, Guthrie, Okla.... 9-16
10- 4 Superstructure, Toronto, Ont.... 9- 9
10- 4 Concrete arch, Brookville, Ind.. 9- 2
10- 4 Bridge, Monticello, Miss..... 9-23
10- 4 Bridge, New London, Mo..... 9-30
10- 5 Bridge, Sutton, Neb..... 9-30
10- 5 Bridge, Mankato, Minn..... 9-30
10- 5 Bridges, Washington, Ind..... 9-30
10- 5 Bridge, Wash., D. C..... 9-30
10- 5 Bridge repair, Danberville, Pa.. 9-23
10- 5 Bridge, Pawnee City, Neb..... 9-23
10- 6 Bridges, Goshen, Ind 9-23
10- 6 Bridge, Warwick, Wash..... 9-30
10- 7* Bridges, Texarkana, Tex 9-16
10- 8* Bridge, Asheville, N. C..... 9-30
10-11 Bridge, Lisbon, Ohio 9-30
10-11* Substructure, etc., Cincinnati, Ohio 9-23
10-12 Bridge approaches, etc., canal, Winchester, Ohio 9-30
10-12 Substructure, Chambersburg, Pa.. 9-30
10-15 Bridge, Shiprock, N. Mex 9-16
10-18* Bridge, Natchitoches, La 9-16
10-19 Bridges, Newark, Ohio 9-30
10-25* Bridge, Vancouver, B. C..... 9-30
10-27 Bridge, Assessippi, Man..... 9-30
11- 3 Bridge, Tallulah, La 9-16

BUILDINGS.

10- 1 Heating, New York 9-23
10- 1 Court-house, Carrington, N. D.. 9-16
10- 1 Jail, Dickens, Tex..... 9-16
10- 1* Post-office, Denison, Tex..... 9-16
10- 2 Quarters, Boise, Idaho 9-23
10- 4 Court-house, Lebanon, Ind 9-16
10- 4* Post-office, Fredericksburg, Va.. 9-16
10- 4 Hospital, Wash., D. C..... 9- 2
10- 4 Painting bldg., New York..... 9-23
10- 4 Shed, New York 9-23
10- 5 Heating, New York 9-23
10- 6 Jail, Baltimore, Md..... 9-30
10- 6 Building, New York 9-30
10- 7 Post-office, Jackson, Mich 9-23
10- 7* Dormitory, Spring City, Pa..... 9- 9
10- 7* Guard house, Ft. Yellowstone, Wyo. 9-16
10-11 Hospital, Farmington, Mo..... 9-30
10-12 Library, Indianapolis, Ind..... 9-30
10-14* Post-office, Belfast, Me..... 9- 9
10-14* Quarters, Ft. Sheridan, Ill..... 9-23
10-15* Screens, Ft. Morgan, Ala..... 9-23
10-18* Post-office, La Crosse, Wis..... 9- 9
10-19* Post-office, Elgin, Ill..... 9- 9
10-20 Post-office, Manitowoc, Wis 9-16
10-20 Quarters, Ft. Riley, Kan..... 9-30
10-22 Stables, Omaha, Neb..... 9-30
10-25* Post-office, Columbus, Miss 9-23
10-25* Post-office, Pittsfield, Mass..... 9-23
11- 4 Schools, New York 9-23
11- 1* Post-office, Eagle Pass, Tex..... 9-30
11- 3* Post-office, Albany, Ga..... 9-30
11-10 Capitol, Helena, Mont..... 9-30
12- 1* Heating, ventilating, New Zealand 9- 9

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10- 1 Water pipe, Terrace Park, Ohio.. 9-23
10- 1 Water-works, Mooresville, N. C.. 9-30
10- 1 Water extension, Washington, La. 9-30
10- 2 Standpipe, Winthrop, Mass 9-23
10- 4* Reservoirs, Portland, Ore 9-16
10- 4 Well, Douglas, Ariz 9-23
10- 4 Water-works impvt., Freeburg, Ill 9-23
10- 4 Water-works, etc., Foley, Minn.. 9-30
10- 4 Water mains, Montivideo, Minn.. 9-30
10- 5 Cast-iron pipe, Montreal, Que... 9- 2
10- 5* Water-works, Marietta, Ga..... 9- 9
10- 5 Pipe, Toronto, Ont..... 9- 9
10- 5* Water system, Comstock, N. Y.. 9-23
10- 6 Water-works, Bradford, Ohio.... 9- 9
10- 6* C.-i. pipe, Christiansburg, Va.. 9-23
10- 6 Pumping unit, Chicago, Ill..... 9-30
10- 8 Water-works, Carroll, Neb..... 9-30
10- 8 Pumps, Spokane, Wash 9-23
10- 9 Crossing, Sheboygan, Wis..... 9-30
10-11 Spigot tubes, Victoria, B. C..... 9-30
10-12 Flumes, Ouray, Colo..... 9-30
10-12 Water system, Fort Gibson, Okla. 9-30
10-15* Reservoir, Asheville, N. C..... 9-30
10-19* Main, Atlantic City, N. J..... 9-23
10-21* Pump, Kansas City, Mo..... 9-23
10-21* Distributing system, Wilmington, N. C. 9-30
10-28* Dike, Casper, Wyo..... 9- 9
10-28* Turbine pumps, Toronto, Ont.... 9-16
11-10* Pumping engine, Dallas, Tex..... 9-23

SEWERS.

10- 1 Sewers, Elizabeth, N. J..... 9-30
10- 2 Sewer, Eureka, Utah 9-30
10- 2 Sewer, Little Rock, Ark..... 9-30
10- 2 Sewer, Charleston, S. C..... 9-30
10- 4* Drains, Boston, Mass 9-16
10- 4 Sewer, Webb City, Mo 9-23
10- 4* Sewer, Vinton, Iowa 9-30
10- 4 Sewers, Kearney, Neb..... 9-30
10- 4 Sewers, Indianola, Iowa..... 9-30
10- 4 Sewers, Springfield, Ohio..... 9-30
10- 5 Sewer, etc., Trenton, N. J..... 9-30
10- 6 Sewers, Mt. Vernon, Wash..... 9-23
10- 7 Sewer, East Liverpool, Ohio..... 9-30
10- 9 Sewer, Evansville, Ind..... 9-30
10-14 Sewers, New Brighton, N. Y..... 9-30
10-14* Sewers, Batavia, N. Y..... 9-16
10-18 Sewer, Huntington, W. Va..... 9-30

STREETS AND ROADS.

10- 1 Highway reconstruction, Albany, N. Y 9-23
10- 1 Grading, Prescott, Wis..... 9-23
10- 1 Street work, Long Beach, Cal.... 9-23
10- 2 Grading, etc., Cleveland, Ohio... 9-23
10- 4 Roads, Danville, Ind 9-23
10- 4 Roads, Greencastle, Ind..... 9-23
10- 4 Paving, Twin Falls, Idaho..... 9-23
10- 4 Walks, etc., Ft. Worden, Wash.. 9-23
10- 4 Paving, Appleton, Wis 9-16
10- 4 Gravel road, Delphi, Ind..... 9-16
10- 4 Gravel road, Williamsport, Ind.. 9-16
10- 4 Gravel roads, Newport, Ind..... 9-16
10- 4* Macadam, etc., Mt. Kisco, N. Y.. 9-16
10- 4 Paving, Logan, Ohio..... 9-30
10- 5 Curb, etc., Shelbyville, Ind..... 9-30
10- 5 Sidewalks, etc., Troy, Ohio..... 9-30
10- 5 Road, Cambridge, Ohio..... 9-30
10- 5 Granite pav'm't, Waterbury, Conn. 9-30
10- 5 Road, Greenbush, Me..... 9-30
10- 5 Roads, Concord, N. H..... 9-30
10- 5 Road, Upper Marlboro, Md..... 9-30
10- 5 Paving, etc., Huntsville, Ala.... 9- 9
10- 5 Road, Crawfordsville, Ind 9-23
10- 5 Road, Vincennes, Ind 9-23
10- 5 Road, Rockville, Ind 9-23
10- 5 Road, Crawfordsville, Ind 9-23
10- 5 Roads, Fowler, Ind 9-23
10- 5 Paving, etc., New York..... 9-23
10- 6 Regulating, etc., Brooklyn, N. Y. 9-23
10- 6 Paving, etc., Corbett, Pa 9-16
10- 6 Macadam, Birmingham, Ala.... 9-30
10- 6 Road, Ashland, Ohio..... 9-30
10- 7 Street impvts., East St. Louis, Ill. 9-30
10- 7 Rock road, Delphi, Ind..... 9-30
10- 7 Road, Carrollton, Ohio..... 9-30
10- 7 Macadam, Burlington, N. C..... 9-30
10- 7* Roads, etc., Texarkana, Tex 9-16
10- 8 Gravel road, Winamac, Ind..... 9-30
10- 8 Paving, Youngstown, Ohio..... 9-30
10- 9 Gravel roads, Mt. Vernon, Ind.... 9-30
10- 9 Grading, etc., Bristol, Tenn..... 9-23
10-11* Paving, Newark, N. J..... 9-23
10-11* Paving, Boston, Mass..... 9-23
10-13 Road, Riverside, Cal..... 9130
10-13* Gravel road, Freehold, N. J.... 9-30
10-14 Paving, etc., New York..... 9-23
10-15 Paving, etc., Ft. Mongal, Ala.... 9-30
10-15 Gravel road, Covington, Ind..... 9-30
10-19 Road, Toledo, Ohio..... 9-30
10-19 Sidewalks, Huntsville, Ala..... 9-30

MISCELLANEOUS.

At once* Quarry stripping, Philadelphia. 9-30
10- 1 Bulkhead, Long Beach, Cal..... 9-30
10- 1 Dredging, Boston, Mass..... 9-30
10- 2 Ditch, Crookston, Minn..... 9-30
10- 4 Monument, Albany, N. Y..... 9-30
10- 4 Levee, Sacramento, Cal..... 9-30
10- 4 Fire alarm cable, New York.. 9-23
10- 4 Painting fireboats, New York.... 9-23
10- 5 Street signs, New York..... 9-23
10- 5* Cement, Vicksburg, Miss..... 9-23
10- 5 Monument, Sharpsburg, Md..... 8-26
10- 5* Barge Canal, Albany, N. Y..... 9- 9
10- 6* Steel barges, Vicksburg, Miss.. 8-19
10- 6 Wheels, spokes, etc., New York.. 9-23
10- 6 Subway, Saskatoon, Sask..... 9-30
10- 7 Dam, Kippewa, Que..... 9-30
10- 7 Steamer, New York 9-23
10- 8* Garbage crematory, Fort Terry, N. Y. (Garbage) 9-16
10- 8 Wharf, Boston, Mass..... 9-30
10- 9 Pole or Ry. (Alaska Central)..... 9-23
10-11 Ditch, Boocher, Ill..... 9-30
10-12* Steel pontons, St. Louis, Mo..... 9-23
10-15 Timber, Kingston, Ont..... 9-30
10-18 Rock-crushing plant, Los Angeles, Cal. 9-30
10-18* Riprap groins, Mobile, Ala..... 9-23
10-19* Dredging pump, St. Louis, Mo.... 9-30
10-19* Dredging, Trenton, N. J..... 9-30
10-20* Stone, Savannah, Ga..... 9-23
No date* Poles, Montreal, Que..... 9-30

EXAMINATIONS.

10-20 Highway Engr., Wash., D. C.... 9-23
10-20 Mechanical Draftsman, Wash., D. C 9-23
10-20 Testing Engr., Wash., D. C..... 9-23

RAILWAYS.

(* *denotes that this work is advertised in Engineering News.*)

ALABAMA.—The Cullman Coal & Coke Co., of Cullman, Ala., will build a railroad 25 miles long. Bids for construction material are now being received. Company has been organized with $2,000,000 capital stock. G. H. Ten Broek is Pres. and John H. Bernhard Vice-Pres. The road will extend from Cullman to Arkadelphia.

ALBERTA & GREAT WATERWAYS.—Company is reported to have disposed of bonds for this line to the extent of $14,000,000. Contracts will be let soon for the first 30 miles of the line northwards from Edmonton, Alta. As soon as possible other contracts will be let. Surveys are now being completed. The company proposes to build to Fort McMurray. Its bonds have been guaranteed by the Alberta Government and a cash subsidy granted. The government has granted $400,000 for terminals at Fort McMurray. E. A. James, formerly Gen. Mgr. of the Canadian Northern Ry., has been appointed Mgr. of the Alberta & Great Waterways Ry. Co., with headquarters at Edmonton, Alta.

ALBERTA CENTRAL.—Surveys are now being made for this line, which it is proposed to build east and west from Red Deer, Alta. John T. Moore, Red Deer, Alta., is interested. Fully noted on Sept. 9.

ALEXANDRIA & WESTERN.—Organized in Louisiana to build west from Alexandria to the Sabine River, and east to the Mississippi. Company plans to build 25 miles this year, from Alexandria westward into pine timber along the west side of Bayou Rapides. J. W. Sylvester, of Alexandria, La., is Engr.-in-Charge. George F. Cotter, of Fort Worth, Tex., is Pres.; J. E. Hutt is Vice-Pres., and W. H. Larson, Secy. and Treas., both of Kansas City, Mo.; H. H. White in General Attorney, Alexandria, La. Company is capitalized at $250,000.

AMERICAN CENTRAL.—We are officially advised that the American Central Railroad Co. of Texas is being organized to build a line from San Antonio north to points in Oklahoma, passing through Brownwood and Vernon, Tex. It is planned to continue the line south from San Antonio to the Gulf of Mexico and north through Kansas, Nebraska and the Dakotas. London financiers are interested with the J. B. Taylor & Co., Inc., 30 Church St., New York, in building this line. It is expected that J. B. Taylor & Co. will begin surveys in a short time, and as the financial arrangements have been already made, it is expected that construction work will begin as soon as the surveys can be completed. W. E. McClintock is Ch. Engr., J. B. Taylor & Co.

ATCHISON, TOPEKA & SANTA FE.—Contract has been let to C. D. SMITH & CO., Brown-Marx Bldg., Birmingham, Ala., for grading work on the remaining 90 miles of the Arizona & California line to complete it from the bridge over the Colorado River near Parker, Ariz., west to Bengal, Cal.

ATLANTIC COAST LINE.—We are officially advised that contracts have been let to SUNDSTROM & STRATTON, 90 West St., and the FERGUSON CONTRACTING CO., 37 Wall St., both of New York, N. Y., for grading, concrete and track laying work in connection with the grade and line revision of the Wadesboro branch between Florence, S. C., and Wadesboro, N. C. The work will involve the excavation of 1,100,000 cu. yds., the construction of 14,000 cu. yds. of concrete and laying 15 miles of track. E. B. Pleasants is Ch. Engr., Wilmington, N. C.

CLOVERDALE & CATAWBA FURNACE.—Chartered in Virginia to build a line twelve miles long in Botetourt County, starting from the Norfolk & Western Railroad at Cloverdale. The incorporators are F. H. Clark, Pres., Brooklyn, N. Y.; C. E. Willis, Vice-Pres., Fincastle, Va.; A. W. Barber, Treas., Nutley, N. J.; F. P. Woglom, Secy., Brooklyn, N. Y. Capital, $5,000.

DELAWARE & EASTERN.—The DOMINION CONSTRUCTION CO., of Pittsburg, Pa., has been awarded a contract for building the D. & E. Ry. between Grand Gorge and Middleburg, N. Y., 36 miles. Noted fully last week.

DES CHUTES R. R.—See Union Pacific R. R.

ELK & LITTLE KANAWHA.—Chartered in West Virginia to build a line from a point near Gassaway, in Braxton County, to Rosedale, Gilmer County. Capital, $150,000. Headquarters will be at Cleveland, Ohio. The incorporators are George E. Price, Buckner Clay, J. Edmund Price, A. C. Collins and R. P. Flournoy, all of Charleston, W. Va.

FRANKLIN & ABBEVILLE.—Walter Kemper, Ch. Engr., Franklin, La., writes us that contract has been let to O'REILLY & SULLIVAN and work is to be started about Oct. 1 on an extension from David Junction, in Iberia Parish, La., northwest via Youngsville to Milton, on the Vermillion River in Lafayette Parish, about 21 miles. Surveys are made, capital secured and right-of-way obtained. Noted on Aug. 19.

GRAND TRUNK PACIFIC.—Company has placed an order for 22,000 tons of steel rails with the ALGOMA STEEL CO. The Standard Inspection Bureau, of Toronto, Ont., has been retained as inspection engineers.

J. A. HARVEY, of Fort William, Ont., has secured a 7-mile sub-contract from the Nepigon Construction Co., about 90 miles east of Nepigon, Ont. He also has a 15-mile subcontract east of Lake Superior Junction, Ont., and states that he will have the work finished by the end of December.

HENRY OUILETTE, JOSEPH MAINFANT and F. ODETTE, all of Fort William, Ont., have secured a 10-mile grading contract in the vicinity of North Bay, Ont.

GREAT NORTHERN.—Bids have been received for revision work on the present line and putting in second track over the Rocky Mountains on the section from Summit, Mont., west to Java, 14 miles. We are officially informed that the contract has been let to the WINSTON BROS. CO., of Minneapolis, Minn. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

LAURINBURG & SOUTHERN.—Preliminary surveys are said to be finished and contract has been let to WOODE & MORRISON, of Laurinburg, N. C., to build from John Station, N. C., east to Wagram, 12 miles. J. F. McNoir, Pres., and G. B. Husk, Ch. Engr., Laurinburg.

MEXICO.—After Jan. 1 the National Railways of Mexico will begin an annual expenditure of about $6,000,000 gold in general repairing of the lines, installing heavier rails, and wherever necessary adding rolling stock, according to the Mexican Herald, which secured the following statement from the management: "It is the intention of the company to do a great deal of general repair work during the ensuing year. Beginning about Jan. 1 in the neighborhood of $6,000,000 per year will be expended for this purpose. Most of the contemplated improvements will consist in putting in heavier rails wherever such is necessary either for safety in travel or for the making of better time. New ties and heavier ones will be put in over a great part of the main lines. A number of the present bridges will be replaced with superior steel structures. Much time and money will be spent also in straightening of the roadbed, ballasting, etc. In addition to the other work, quite a number of stations will also be built at different points along the main line where they are needed."

PACIFIC RAILWAY & NAVIGATION CO.—Contracts have been let to the J. W. SWEENY CONTRACTING CO., S. M. BUMANER and ISAAC BUMANER for building 91 miles of line west from Hillsboro, Ore. Track has been laid for 40 miles. It is officially stated that the company has already finished work on 17 tunnels, the longest of which is 1,400 ft. Noted on June 3.

PECOS & NORTHERN TEXAS.—Company has amended its charter in Texas to build a line 60 miles long from a proposed new town to Lamesa, 60 miles, via Taboka, in Lynn County. T. J. O'DONNELL, of Lamesa, Tex., is contractor. Construction will start in 60 days. Surveyors are now locating the route. G. E. Harris, of Amarillo, Tex., is Engr.-in-Charge.

PROVIDENT RY. RIGHT-OF-WAY CO.—We are officially advised that contracts will be let about Oct. 1 for building this line from Glen Flora, in Wharton County, Tex., west via Provident City, to Hallettsville, in Lavaca County, 55 miles. There will be one steel bridge and four trestles. Carey Shaw, Box 174, Houston, Tex., is Pres. Previously noted.

ROSCOE, SNYDER & PACIFIC.—We are officially advised that track laying on the extension of this line from Snyder, Tex., to Fluvanna, Tex., 20 miles, was completed to Fluvanna Aug. 28. The schedule of regular trains has been extended to the new portion of the road, giving through service from Roscoe, Tex., on the Texas & Pacific Ry., 50 miles. F. W. James is Pres., Abilene, Tex.; Ed. S. Hughes, Vice-Pres. and Gen. Mgr., Abilene, Tex.; W. S. James, Asst. Gen. Mgr., Roscoe, Tex.; Martin Duvall, Ch. Engr., Snyder, Tex.

SIAM.—The Daily Consular and Trade Report of the Bureau of Manufactures, Dept. Commerce and Labor, states that "Vice-Consul-General Carl C. Hansen, of Bangkok, has forwarded copies of specifications for tenders for the supply of tools and other material for the Southern Line Department of the Royal Siamese State Railways. The limited time will not permit of bids from American firms, as the conditions of delivery state that goods must be furnished within 15 days of acceptance of the tenders, but the specifications will serve the purpose of showing the classes of goods required and acquainting firms in the United States with the progress of the work."

UNION PACIFIC.—TWOHY BROS., Spokane, Wash., have contract for building the Des Chutes R. R., from a connection with the Oregon Railroad & Navigation Co. at the mouth of the Des Chutes River, in Sherman County, Ore., south to Redmond, in Crook County, 130 miles. Of this 80 miles will be in a canyon of the Des Chutes River, from which place it will follow Trout Creek.

ELECTRIC RAILWAYS.

PRESQUE ISLE, ME.—The Railroad Commissioners of Maine have approved the petition of this company to change the location of its proposed electric railway about four miles outside the highway. Company plans to construct a railway from Presque Isle through Mapleton to Washburn, twelve miles, joining the Canadian Pacific Railroad at Presque Isle, and the Bangor & Aroostook Railroad at Washburn, as noted on Aug. 19. A. R. Gould, Presque Isle, is Pres. and Gen. Mgr.

MARS, PA.—We are officially advised that contracts will be let about Nov. 1 by the Rochester & Mars St. Ry. Co. for the construction of this proposed electric railway, to extend from the Baltimore & Ohio Railroad depot at Mars, to Rochester, a distance of 17 miles. As previously noted this railway will cost approximately $400,000. It will connect with the Pittsburg & Butler Street Railway; with the Pittsburg, Harmony, Butler & New Castle Railway, and with the Beaver Valley Traction Co. J. H. Barrett, 331 Fourth Ave., Pittsburg, is Pres. and Ch. Engr. The company recently applied for a charter, as noted fully on July 8.

CARLISLE, PA.—We are officially informed that the Cumberland Ry. Co. is doing its construction work by contract. The CARLISLE CONSTRUCTION CO. has the grading contract. Noted fully on Aug. 19.

McKEESPORT, PA.—A meeting of the stockholders of the Pittsburg, McKeesport & Westmoreland Ry. Co. will be held on Nov. 22 to vote on the proposition to spend $2,000,000 on extensions and improvements next spring. Provision is understood to have been made for obtaining the money, and it will be available as soon as the stockholders approve the proposed plan. This company has been granted a franchise by the City Council of West Newton to build an electric railway in West Newton. The company has given a $5,000 bond to complete the line within a year.

ATLANTA, GA.—Contract for two miles of line from Stonewall to Fairburn, Ga., on the Atlanta & Fairburn Electric R. R. has been let to JOHN WRIGHT & CO. L. W. Roberts is Engr.

SANFORD, FLA.—We are officially informed that J. B. Taylor & Co., Inc., 30 Church St., New York, are interested in the construction of the Florida Central Traction Co., a proposed traction line to be built from Sanford, Fla., through Orlando, to Kissimmee to handle fruit and garden truck and for the convenience of the winter tourist traffic. The line will be 42 miles long and will be operated by motor cars, either gasoline or gasoline electric. Details of organization are not yet completed, but the road is financed through J. P. Hornaday & Co., of 30 Church St., New York.

NEW IBERIA, LA.—H. A. Mentz, Hennen Bldg., New Orleans, has been granted a franchise by the City Council for the building of an interurban railway to Jeanerette.

HUMBOLDT, TENN.—The Missouri, Tennessee & Georgia R. R. Co. has applied for a charter to construct an electric street railway from Humboldt to Dyersburg, via Crockett Mills, Friendship and Bonicord, a distance of 35 miles. Capital stock, $1,000,000. Incorporators: C. H. Ferrell, Dr. J. H. Thomas, C. T. Jarrell, G. D. Ferrell, C. W. Rooks, J. D. Senter, W. W. Baird, O. C. Sharp, J. M. Senter and A. R. Dodson.

LOUISVILLE, KY.—A corporation to construct and develop trolley roads, to be known as the Kentucky Rapid Transit Company, has been chartered by Samuel M. Clement, Jr., of Philadelphia, Pa., under the laws of Delaware, with a capital of $10,000,000. The plan is to take over the major traction companies in Kentucky and the series of interurban lines that radiate from Lexington and Louisville. The charter sets forth that the capital stock shall be divided as follows: $2,500,000 in preferred and $7,500,000 in common stock. According to counsel, Graham, Gilfillan & Clement, about a third of the capital will be subscribed in Philadelphia, and the rest in Boston, New York and Kentucky. The company was formally organized and directors and officers chosen at a meeting held on Sept. 28. Mr. Clement states that the company would equip the old as well as the proposed lines with double tracks. Noted last week.

INDIANAPOLIS, IND.—The Indianapolis, New Castle & Toledo Electric Ry. Co. (the Union Trust Co., 116 East Market St., Indianapolis, Receiver) has let the first contract for the completion of this electric railway to W. C. MILLER, Indianapolis, having authority to issue $400,000 in Receiver's certificates by the order of the Superior Court of Indianapolis.

MONTICELLO, IND.—The Tippecanoe & Monticello Interurban Ry. Co. has been incorporated in Indiana with $100,000 capital and office at Monticello, Ind., to build lines connecting Fowler, Lafayette, Battle Ground, Ash Grove, Delphi, Brookston, Chalmis, Wheeler, Reynolds, Monticello, Sitka, Buffalo, Headlee, Pulaski, Winamac, Idaville, Burnettsville, Curveton, Trimmer and Logansport. The incorporators include W. B. Felker, C. E. Turner, T. W. O'Connor, J. A. C. Blackburn and W. R. White.

FORT WAYNE, IND.—The County Commissioners have granted a franchise to the Fort Wayne & Toledo Electric Ry. Co. for an interurban railway along certain highways between Fort Wayne and Reed's Corner. The company will file a bond of $5,000 to have the railway completed by Dec. 1, 1910. The railway will extend from Fort Wayne to Bryan, Ohio, a distance of 42 miles, making a direct connection to Toledo, Ohio. R. T. Bastress Harlan, is Gen. Mgr.

PLYMOUTH, IND.—The City Council has granted a 40-year franchise to the South Bend & Logansport Traction Co. to build its electric railway through Plymouth. The franchise provides that work shall begin within three months and shall be completed by June 1, 1910. This company has been incorporated to construct an electric railway from South Bend to Logansport, via Plymouth and Rochester, a distance of 69½ miles. Capital stock, $400,000. Incorporators: Thomas P. Moredock, Virginius Nicar and P. J. Haulihan, South Bend; Henry F. Coleman, Logansport, and David Pepper, Jr., Philadelphia.

DES MOINES, IOWA.—Right-of-way is being secured by the Des Moines & Sioux City Ry. Co., and terminals arranged for in Sioux City and Des Moines. J. W. Reed is Pres.; M. H. Miller, Vice-Pres. and Gen. Mgr.; J. W. Russell, Treas.; M. F. Coons, Secy.; M. H. Miller, Asst. Secy.; C. E. Russell, Auditor. Noted on Sept. 2.

KANSAS CITY, MO.—The Electric Traction Construction Co., Commerce Bldg., Kansas City, Mo., is stated to be asking for bids to build from Kansas City north to St. Joseph, 48½ miles. There are to be 24 bridges on the line. Bids also wanted for a concrete power-house to be built in St. Joseph at a cost of $400,000. E. D. Martin is Pres., and N. C. Van Natta, Ch. Engr., 301 Commerce Bldg., Kansas City.

HELENA, ARK.—The Helena Street & Interurban R. R. Co. has let the contract for building its electric railway between Helena and West Helena, about four miles distant, to R. L. LEONARD, of Helena. The cost of the railway is estimated at $40,000. A power plant will be located at West Helena.

SEATTLE, WASH.—We are officially advised that contract has been awarded to FELT & EASTMAN, Tacoma, Wash., for building the Seattle-Tacoma Short Line for distance of 29 miles. Surveys are being made and right-of-way is being obtained. Noted on Aug. 19 and June 24. James B. Murphy, Seattle, Wash., is Pres.

BAKER CITY, ORE.—It is announced that the Baker Interurban Ry. Co. is making surveys and preparing plans for a new railway to be built from Haines to North Powder and Rock Creek. About 58 miles have already been surveyed. It is the intention to start work within a few weeks. The motive power will be either electricity or gasoline. It is proposed to erect repair shops at Baker City. Capital stock, $50,000. T. B. Neuhausen, Portland, is Pres.; A. K. Bentley, Portland, Secy. and Gen. Mgr.; Anthony Mohr, Baker City, Treas. and Purchasing Agent. A. E. Hammond, Portland, is Ch. Engr. Noted on Sept. 9.

SANTA ROSA, CAL.—The City Council has granted a franchise to the Sonoma & Lake County R. R. Co. to construct an electric railway in Santa Rosa. The railway is to connect Cloverdale, Preston and Lakeport. A. E. Dickinson, Ukiah, is Pres.

GRANGEVILLE, IDAHO.—George Carter, of Jackson, Mich., has stated that he has plans under way, and as soon as it is definitely shown that a railroad is building along the middle fork of the Clearwater River, a company of Michigan capitalists, now organized, will begin construction on an electric line from Elk City to connect with the railroad on the river.

LIGHT AND POWER PLANTS.

(* *denotes that this work is advertised in Engineering News.*)

BELFAST, ME.—The Penobscot Bay Electric Co., of Bucksport, Me., has taken over the property of the Belfast Gas & Electric Co. The company will install a 24-hr. service. A. C. Hopkins is Supt., Bucksport.

AUGUSTA, ME.—The American Power & Light Co. has been incorporated here with a capitalization of $15,000,000. The company will manufacture machinery and electrical apparatus. The promoters are Harry M. Durning, George J. Anderson, H. B. Squiers and E. W. Hammonds, all of New York.

PLAISTOW, N. H.—Plans are being made to install an electric light plant between Plaistow and Newton to furnish electricity for lighting the streets and residences in both villages.

FITCHBURG, MASS.—Bids have been opened, it is reported, at the office of Parker, Bateman & Chase for the dam which the Wanoosnoc Power Co. is to build above present dam on Wanoosnoc stream. MICHAEL SERRETO, of Boston, submitted the lowest bid and has received contract. The new dam will be 1,800 ft. above present dam and will give the company an additional head and fall of about 50 ft. It will consists of a dry rubble wall with a concrete facing and rock filled on the other side, 344 ft. long, 25 ft. high, and 23 ft. wide at base.

FORT ADAMS (Newport post-office), R. I.—We are officially advised that bids were received on Sept. 28 as follows by Capt. Charles C. Metcalf, Constructing Q. M. U. S. A., Newport, for the remodeling of the electric lighting system at Fort Adams: (a) Construction of lines, (b) furnishing Watt meters, etc.: Whitall Electric Co., Westerly, R. I., (a) $11,356, (b) $3,025 (bid on chestnut poles); General Electric Co., 84 State St., Boston, Mass., (a) $9,977 (b) $2,673 (will not accept No. 1 unless awarded No. 2); Westinghouse Electric & Mfg. Co., Board of Trade Bldg., Boston, (b) $2,650; McCay Engineering Co., 9 East Lexington St., Baltimore, Md., (a) $10,825, (b) $2,854; Fort Wayne Electric Works, Fort Wayne, Ind., (b) $2,671 (partial bid only on item No. 2); Fred T. Ley Co., Inc., Phoenix Bldg., Springfield, Mass., (a) $14,250; A. D. Granger Co., 90 West St., New York, (a) $11,900, (b) $3,572; M. B. Foster Electric Co., 100 West 26th St., New York, (a) $11,920, (b) $3,191; Westinghouse Electric & Mfg. Co., Continental Bldg., Baltimore, Md., (b) $2,055 (partial bid only on item No. 2). All bids have been forwarded to the Quartermaster General, U. S. A., Washington, D. C., for final action.

JEWETT CITY, CONN.—Negotiations have been completed between the Borough Electric Light Commissioners and the NASHEWAUG ELECTRIC POWER CO. have been awarded contract to supply electricity for lamps and motors here. It is understood that the service will begin in about six months and a 24-hr. service established. The plant of the new company has not yet been built, and will be located in Chaplin. The present plant will be held for use in emergencies. The charter of the company gives it the right to supply electricity in the towns of Canterbury, Chaplin, Plainfield and Griswold. S. M. Taber, of New Bedford, Mass., is Pres. Frank Perry, of Boston, Mass., is Secy.

BUFFALO, N. Y.—The Public Service Commission, Albany, has authorized the Cataract Power & Conduit Co., H. B. Alverson, Supt., Buffalo, to issue $149,000 of bonds to be used for the acquisition of property and the extension and improvement of the plant.

NIAGARA FALLS, N. Y.—Bids were received by the city on Sept. 6 for furnishing and installing about 186,000 ft. of transmission cable in conduits furnished by the city. Contract has been awarded to JOHN A. ROEBLING'S SONS, 117 Liberty St., New York, at $10,285.

ROCHESTER, N. Y.—Bids will be received until Oct. 4 by the Board of Education, J. S. Mullan, Secy., for electric light wiring and fixtures for schools Nos. 4, 5, 9, 13, 17, 18, 30, 36, etc. J. Foster Warner is Archt., 1036 Granite Bldg.

PORT BYRON, N. Y.—The Board of Village Trustees has engaged H. B. Sweet, of Utica, N. Y., as engineer, to prepare plans for a municipal electric light plant. Estimated cost, about $15,000.

CARROLLTON, N. Y.—The Carrollton Electric Co. is reported incorporated to operate a light, heat and power plant with capital of $25,000. The incorporators are: O. Pierson and E. S. Simpson, of Carrollton.

BROWNSVILLE, PA.—JOHN WOLFE, of Homestead, Pa., has been awarded contract for the construction of a power house for W. Harry Brown, in Brownsville. Estimated cost, about $20,000.

SCRANTON, PA.—The Scranton Electric Co., L. H. Conklin, Gen. Mgr., of Scranton, Pa., a subsidiary of the American Gas & Electric Co., of Philadelphia, Pa., has increased its capital stock from $3,000,000 to $7,000,000, part of the proceeds to be used to finance the purchase of a number of plants which have been acquired during the past year and the remainder for future developments. New stock for $250,000 will be issued at once.

PHILADELPHIA, PA.—Contract for furnishing motor generator sets for the Philadelphia navy yard, bids opened on July 10, it is stated, has been awarded to the ALLIS-CHALMERS CO., of Milwaukee, Wis., at $18,125.

PHILADELPHIA, PA.—Bids are asked until 11 a. m., Oct. 16, by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for alterations in power plant at Naval Home, Philadelphia. Specifications are on file at the office of Engineering News, New York.

ARDMORE, MD.—The Washington, Baltimore & Annapolis Ry. Co. has awarded contract for the construction of a sub-station in Ardmore, Md., to EDWARD WATERS & CO. Cost, $8,000.

WASHINGTON, D. C.—Bids will be received at the Bureau of Yards and Docks, Navy Department, Washington, D. C., until Oct. 5, for furnishing at the navy yards and naval stations the following supplies: Mare Island, Cal., Schedule 1625, one 40 and one 10-ton overhead traveling crane, one 40 and one 10-ton crane runway extension to 40-ton crane runway; Newport, R. I., Schedule 1685, twelve geared head motor-driven engine lathe with spare parts; Pensacola, Fla., Schedule 1681, machinery for central power plant; Washington, D. C., Schedule 1686, furnishing and installing a complete outfit of tank pumps and piping for an oil storage and distributing system; Schedule 1683, two motor-driven centrifugal pumps; Schedule 1684, complete equipment for oxygen and acetylene generating and compressing machines; Brooklyn, N. Y., Schedule 1671, 1,500 lbs. magnet wire; Schedule 1678, 130 generator and circulating tubes. Applications for proposals should designate the schedules desired by number.

FORT MYER, VA.—Plans and specifications are on file at the office of Engineering News, New York, for interior electric wiring of 44 buildings, including fixtures and the installation of a complete outside distribution system here. Bids are asked until Oct. 13.

ANDERSON, S. C.—The Anderson Water, Light & Power Co. has awarded contract for improvements to its power plant at Portman Shoals to the GENERAL ELECTRIC CO., of Schenectady, N. Y. H. A. Orr is Pres. & Mgr.

MANDEVILLE, LA.—The Town Council has granted A. D. Piaggio, of New Orleans, La., franchise to install an electric light and ice plant here. Under the terms of the franchise, the company is to furnish six street lamps and electricity for lighting the town hall free of charge. It is expected to have the plant in operation by June, 1910.

ALEXANDRIA, LA.—Bids will be received about Oct. 27 for extensions to the electric light and water-works plant. Estimated cost, about $40,000.

LAKE CHARLES, LA.—Plans are being considered by the City Council for extensions to the electric light and water service.

MEMPHIS, TENN.—The Southern Steel Co. is reported to have awarded a contract to the NORTHERN ELECTRIC CO. for electrical equipment amounting to $75,000.

SANDUSKY, OHIO.—The Sandusky Gas & Electric Co., E. A. Bechstein, Supt., during October will install one 750-KW. Westinghouse, 3-phase, 60-cycle, 2,300-volt turbo-generator, one Westinghouse 450-KW. belted, 3-phase, 60-cycle, 2,300-volt generator, one 150-KW. motor-generator set consisting of synchronous motor driving a 550-volt direct-current generator. Line voltage will be changed from 1,100 to 2,300 volts, also from 133 to 60 cycles. All of the present electrical machinery will be discarded, except one 113-KW., 500-volt, direct-current generator, and all engines except one 600-HP. Allis and a 125-HP. Ball. No change will be made in boiler equipment.

ORRVILLE, OHIO.—Announcement has been made by Councilman Orrville that he will introduce an ordinance in the Council to provide for a bond issue of $100,000 for the erection of a municipal electric light plant, so that the question may be submitted to a vote of the people at the November election. The street lighting costs the city about $50,000 a year at present.

CLIFTON, OHIO.—The Village Council has granted the Cedarville Light & Power Co., E. G. Lowry, Supt., of Cedarville, Ohio, a franchise to furnish electricity for lamps here. It is expected that the company will supply incandescent lamps for street lighting soon.

CUYAHOGA FALLS, OHIO.—Plans are being prepared by the Falls River Machine Co. for the construction of a power plant. E. Seedhouse is Pres.

DAYTON, OHIO.—The cost of installing the boulevard lighting system in the district outlined by the Council is estimated at about $32,742 by the City Engineer.

BLUFFTON, IND.—The City Council is asking for bids for the construction of 20 arches for lighting the city streets.

COLUMBIA CITY, IND.—Contract for installing boilers in the municipal electric light plant has been awarded to the WICKES BOILER CO., of Saginaw, Mich.

INDIANAPOLIS, IND.—Contracts will be let soon for the erection of a 10-story power building at 23-24 East Georgia St. by the John W. Murphy estate. Estimated cost, $40,000.

ELBURN, ILL.—Work has commenced on the construction of the new electric plant for Elburn. Contract for which has been awarded to the INTERNATIONAL HARVESTER CO. at about $5,500. The contract includes the construction of the plant complete and calls for the erection of 43 street lamps of 80 c.-p., and for equipment of sufficient output to supply the street lighting system and 600 incandescent lamps for commercial purposes. It is expected to have the plant in operation by Nov. 15.

OTTAWA, ILL.—W. D. Boyce, of Marseilles, Ill., has applied to the City Council for a 50-year franchise to construct transmission lines in the streets of the city for the distribution of electricity. The company now has its transmission line erected from its hydroelectric plant in Marseilles to Ottawa.

CHICAGO, ILL.—Plans have been prepared for installing two pumping engines in the Roseland pumping station with a capacity of 50,000,000 gallons per day, to be operated by electricity. The energy will be furnished by the Sanitary District of Chicago, the Commonwealth Edison Co. furnishing emergency service. It is expected to have the station in service within a year.

CARTERVILLE, ILL.—The Interurban Electric Co., recently incorporated, contemplates acquiring a plant and increasing the output by the installation of a 300-KW. turbine and proposes to erect transmission lines from Herrin, Ill., to Carterville and Reeves. A day service will also be established, it is reported. The company is capitalized at $150,000. F. W. Richart, E. E. Denison and H. B. Cassel are the incorporators.

CHAMPAIGN, ILL.—The Illinois Traction System, it is reported, is planning to erect a power station at Venice, Ill., which will have an output of 10,000 HP. Estimated cost, $500,000. The station will furnish electricity to operate the southern division of the system.

BETTENDORF (Davenport post-office), IOWA.—Bids will be received, it is reported, by E. W. Robeson, Mayor, about Oct. 15 for constructing water-works, sewers and electric lights. Cost, $110,000. Iowa Engineering Co. are Engrs., Clinton.

The Village Trustees are stated to have granted the Bettendorf Improvement Co. a franchise for water-works and an electric light plant. W. P. Bettendorf is one of the incorporators.

LESUEUR, MINN.—Bids will be received until Oct. 1 by James A. Morgan, City Clk., for a Corliss heavy duty engine 16 × 36 ins. to drive by alternating-current generator.

DETROIT, MINN.—Bids will be received by C. G. Strutevant, City Clk., until 8 p. m., Oct. 5, for an electric light and power plant and an extension to the water-works system. L. P. Wolf, St. Paul, Minn., is Engr. Cost, $30,000.

DETROIT, MINN.—Bids received on Sept. 14 for the extension and improvement of the light and power, water-works and heating plants have been rejected. L. P. Wolff is Engr., St. Paul.

WAKEENEY, KAN.—Contracts for the equipment of the municipal electric light plant, bids for which were opened Sept. 15, have been awarded as follows: For machinery to the FAIRBANKS, MORSE CO., of Kansas City, Mo., at $4,550, and for transmission lines to CHARLES STEINBERGER, of Wakeeney, Kan., at $4,150. George P. Taylor, of Stockton, Kan., is Engr.

ERIE, KAN.—Plans are being prepared by Burns & McDonnell, Scarritt Bldg., Kansas City, Mo., consulting engineers, for the construction of an electric light plant and water-works system. Estimated cost, about $50,000.

FORT LINCOLN (Bismarck post-office), N. DAK.—Bids will be received by Lieut. J. D. Elliott, Constr. Q. M., U. S. A., until Oct. 19 for furnishing material for wiring buildings, also furnishing all poles and setting up and wiring same around garrison and down to end of reservation road.

TYNDALL, S. DAK.—Plans are being considered for the construction of a municipal lighting system and pumping station, and also the installation of a gas producer engine.

MARYVILLE, MO.—Contract for constructing power plant, heating, ventilating, sewerage and plumbing at Normal School, bids opened on Sept. 17 by the Board of Regents of the Fifth District Normal School, has been awarded to the MACMAHON CO., 408 East 14th St., Kansas City.

NASHVILLE, ARK.—Leo Loeb and George Schmial, of Hot Springs, Ark., are interested in a project to erect an electric light plant here.

RYAN, OKLA.—Bids will be received until Oct. 4 for constructing an electric light plant, $6,000; water-works, $45,000; sewers, $18,000. J. W. Borum is Town Clk.

SUGAR CITY, COLO.—The Sugar City Electric Light & Power Co., recently organized, has applied for a franchise to construct and operate an electric light and power plant here. R. F. Bornschien, W. F. Bornschien and H. P. Bornschien are incorporators.

BREMERTON, WASH.—The D'OLIER ENGINEERING CO., 121 South Eleventh St., Philadelphia, Pa., has received contract at $37,950 for the installation of a piping and circulating system in the new power plant at the Navy Yard, Puget Sound, Wash.

PORTLAND, ORE.—The Seventh Street Improvement Club will soon award contracts for furnishing lamp posts with a cluster of five lamps every alternate 50 ft. on each side of Seventh St., between Couch and Jefferson Sts. Charles A. Malarkey is interested in the project. It is expected that similar lamps will soon be placed on other streets.

LOS ANGELES, CAL.—The Board of Public Works has recommended to City Council an issue of $3,500,000 of bonds to be used for the development and distribution of electrical power along the Los Angeles aqueduct.

FRESNO, CAL.—Contracts will be let soon it is reported, for the machinery and equipment for the addition to the hydro-electric plant of the San Joaquin Light & Power Co., increasing the output by 10,000 HP. The work will include the enlargement of the Crane Valley dam and reservoir and extension of flume lines. The plans and specifications for the machinery and pipe lines can be secured upon application to J. G. White & Co., 43 Exchange Pl., New York, Engrs.-in-Charge.

SEBASTOPOL, CAL.—The Board of Supervisors has granted H. C. Eastman, a franchise to erect a transmission line from Sebastopol to the towns of Graton, Forestville, Guerneville, Monte Rio, Camp Meeker, Occidental, Freestone, Duncans Mills, Markhams and Cazdero, to supply electricity for lamps and motors in the above towns. Electricity for the system will be supplied from the plant of the Pacific Gas & Electric Co., Sebastopol. Contracts have already been secured by Mr. Eastman for lighting the towns mentioned.

VALLEJO, CAL.—The contract for furnishing the structural steel work for the central power station at Mare Island, Cal., bids for which were opened on Sept. 11, has been awarded to the AMERICAN CONSTRUCTION CO., 338 Pine St., San Francisco, Cal., at $15,685, and for the balance of the work to E. D. CROWLEY CO., 127 Market St., San Francisco, Cal., at $59,894.

POWELL, ARIZ.—Col. C. E. Apponi, of El Paso, Tex., Consulting Engr., is promoting the project of establishing a large hydro-electric plant on the Colorado River at what is known as The Needles, situated about 25 miles south of here. He has secured water rights to a strip of the river territory five miles in length at the first rapids and it is at that place the plant will be located. The initial plant will have a capacity of 30,000 HP., which can be increased from time to time as the demand for power may require. It is planned to build a number of transmission lines and to supply towns and industrial plants within a radius of 170 miles of the plant with power. In connection with the hydro-electric project the water from this storage reservoir will be conducted by means of a system of canals over a large scope of land which will be made productive by means of irrigation. The plans call for the expenditure of more than $2,000,000.

TORONTO, ONT.—The city has awarded contract for laying conduits for the proposed electrical transmission system to GOLDEN & LANSING, Troy, N. Y., at $65,800.

BRIDGES.

(* *denotes that this work is advertised in Engineering News.*)

BUZZARDS BAY, MASS.—We are officially advised that the contract for the superstructure of the double-track, 160-ft. single-leaf bascule bridge for the New York, New Haven & Hartford R. R. Co., over the Cape Cod Canal at Buzzards Bay, has been awarded to the PENNSYLVANIA STEEL CO. William Barclay Parsons, 60 Wall St., New York, is Chief Engr. for the Cape Cod Construction Co., who are the owners of the bridge. The structure will be a Strauss-Trunnion-Bascule, built in accordance with plans and specifications prepared by the Strauss Bascule & Concrete Bridge Co., 902-904 Fort Dearborn Bldg., Chicago, Ill.

HAVERHILL, MASS.—Bids for rebuilding the wooden fender pier of the Groveland bridge over the Merrimack River, between Haverhill and Groveland, were received by the County Commissioners on Sept. 27. We are officially advised that contract has been awarded to HATCH BROS., of Newburyport, Mass., at $9,350. James P. Hale is Asst. Clk.

PENNINGTON, N. J.—THOMAS J. McGOVERN, Trenton, N. J., has received contract for a steel and concrete bridge over Honey Brook, on Pennington and Princeton road, at $3,800. Other bids were as follows: Antonio De Lucia, $4,440; Nelson Merydith Co., $4,490; Richard B. Newton, $4,500; John O. Ege, $4,952.

INDIANA, PA.—Bids will be received until Sept. 30 by the Board County Commissioners, A. F. Bowman, Chn., for constructing the superstructure of a new iron bridge, 42 ft. long and 14 ft. wide, with a reinforced-concrete roadway, over Cherry Run in Center Township.

CHAMBERSBURG, PA.—Bids are asked until Oct. 12 by the County Commissioners for the substructure of a reinforced-concrete bridge, concrete foundation, two 20-ft. spans, 17 ft. clear width, in Washington Township, Franklin County. W. H. Forman is Engr.

WASHINGTON, D. C.—Bids are asked until 2 p. m., Oct. 5, by the Department of Interior, Office of Indian Affairs, Washington, D. C., for the construction of a steel highway bridge across Opossum Creek, Pawnee Agency, Okla.

WHEELING, W. VA.—Three bids for the construction of the substructure of the new Market St. bridge were opened by Board of Control Sept. 19. Contract was awarded to NELSON MERYDITH CO., of Chambersburg, Pa., subject to the approval of Council, at $21,926 for substructure and $9 per cu. yd. for all extra concrete.

*ASHEVILLE, N. C.—Bids for a reinforced-concrete bridge and viaduct across French Broad River and Southern Ry. at Asheville, will be received by the Board of Commissioners of Buncombe County, Asheville, until 10 a. m., Oct. 8. Length of bridge, 800 to 975 ft.; roadway, 24 to 30 ft.; one sidewalk; bridge to have ample capacity for a concentrated load of 24 tons, 100 lbs. per sq. ft., and two 35-ton electric cars en train. Bidders to submit their own plans. R. P. Johnson is Engr., Asheville.

TAMPA, FLA.—The Hillsboro County Commissioner has awarded contract at $3,799 to the ROANOKE BRIDGE CO., Roanoke, Va., to construct steel bridge over Six Mile Creek, concrete piers, steel lattice hand rail along each side, roadway 18 ft. wide, steel span about 116 ft. in the clear. H. L. Hayne, Jacksonville, Fla., is company's representative.

CANAL WINCHESTER, OHIO.—Bids will be received until Oct. 12 by the Board County Commissioners, Columbus, for constructing the approaches to the Bishop Run bridge, about three miles south of Canal Winchester. Engineer's Estimate No. 1087; also substructure and superstructure for the bridge. Engineer's Estimate No. 1088. F. M. Sayre is County Audr.

ST. MARY, OHIO.—The CENTRAL STATES BRIDGE CO., Indianapolis, Ind., has been awarded contract, at $8,300, for constructing a bridge over the race and canal to connect North and South Chestnut Sts. of this city.

BENWOOD, OHIO.—Patrick Farrell, of Cincinnati, Ohio, has been awarded contract by the Baltimore & Ohio R. R. Co. for the construction of a bridge across the Ohio River from Benwood to Wheeling, W. Va., and terminal buildings at Benwood, at about $250,000.

LISBON, OHIO.—Bids will be received until Oct. 11 by the County Auditor for constructing a steel truss bridge, 60-ft. extreme length, 14-ft. clear roadway, with concrete floor.

NEWARK, OHIO.—Bids are asked by the County Commissioners until noon, Oct. 19, for the erection of the superstructure of two bridges. U. N. Wright is County Audr.

WASHINGTON, IND.—Bids are asked until 10 a. m., Oct. 5 by the County Commissioners for the construction of several bridges. Thomas Nugent is Audr.

*CHICAGO, ILL.—CHARLES VOLKMAN & CO., 184 Dearborn St., were awarded the contract for erecting bridges over the north shore channel of the Sanitary District of Chicago, at Lincoln and Isabella Sts., in Evanston, Ill., by the Sanitary District of Chicago on Sept. 21, at $6,274.

COUNCIL BLUFFS, IOWA.—The City Council has received the following bids for the construction of concrete bridges at Benton and Eighth Sts.: E. A. Wickham, Benton St. bridge, $11,885; Eighth St. bridge, $7,492; N. M. Stark, $8,000 and $15,000; Two Miracle Concrete Corporation, $6,783 and $8,463; James Saguin, Benton St. bridge, $5,500; Kimballton Construction Co., Benton St. bridge, $8,460.

MANKATO, MINN.—Bids are asked until 2 p. m., Oct. 5, by Edgar Weaver, County Audr., for the construction of a steel bridge between Sections 31, 109, 29, Blue Earth, and Sections 36, 109, 30, Brown Counties. The structure will be a 32-ft. truss steel bridge with reinforced concrete floor on steel piling foundation, with reinforced concrete backing.

GARNETT, KAN.—The TOPEKA BRIDGE CO., Topeka, Kan., has been awarded contract, at $10,000, for the construction of three concrete and one steel bridge in this county.

SUTTON, NEB.—Bids are asked until 6 p. m., Oct. 5, by C. M. Brown, City Clk., for the construction of a steel wagon bridge 16 ft. in width and 60 ft. in length on Butler Ave., across School Creek. The structure is to rest on concrete abutments and is to have no overhead work.

NEW LONDON, MO.—Bids will be received until Oct. 4 by the County Court, New London, for constructing a 105-ft. steel bridge over Turkey Creek. A. Victor Ely is Road and Bridge Comr., Monroe City.

KANSAS CITY, MO.—Contracts for constructing bridge, 4,000 ft. long, across the Missouri River, has been let as follows: Substructure, J. J. O'CONNOR, 437 Spruce St.; superstructure to McCLINTOCK, MARSHALL CO., Pittsburg, Pa.

SAN MARCOS, TEX.—The Hays County Commissioners have awarded contract, at $7,490, to OTTUMWA BRIDGE CO., Ottumwa, Ohio, for constructing a concrete and steel bridge across Blanco River, on Kyle road. Structure is to be built in sections and will be 42 ft. above bed of river, 16 ft. wide and 125 ft. long.

SAN ANTONIO, TEX.—The Bexar County Commissioners have engaged Terrett Bartlett, of San Antonio, to prepare plans and superintend construction of concrete bridge across Medina River at Pleasanton road. Structure is to have three spans, each 1,000 ft., and to be 35 ft. above water. Thomas C. Nelson is County Road Engr.

HOUSTON, TEX.—F. L. Dormatt, of Houston, Consulting Engr., has completed plans for a viaduct to span ship channel at foot of San Jacinto St. Structure to be 330 ft. long and 70 ft. wide, with 10-ft. sidewalks on each side, roadway 50 ft. from curb to curb with two car tracks in center, arches to be paved with brick laid on eight inches of concrete, lifts with creosoted blocks and sidewalks with brick, ten arc lights, draw to permit passage of vessels operated by electricity, concrete piers with bulkheads around them at base.

CAPITOL HILL, OKLA.—Bids will be received until Oct. 1 by the Board of Town Trustees for constructing a steel highway bridge. M. Cassidy, Jr., is Town Clk.

GUTHRIE, OKLA.—The Commissioners of Johnson County have awarded contracts for the construction of the 24 steel bridges throughout the county at a total cost of $62,211. The MIDLAND VALLEY BRIDGE & IRON CO., of Leavenworth, Kan., and the KANSAS CITY BRIDGE CO., of Kansas City, Mo., were the successful bidders.

WARWICK, WASH.—Bids are asked until 11 a. m., Oct. 6, by Alex. Van Wyck, County Audr., for the construction of a 150-ft. steel bridge over the North Fork of the Nooksack River, near Warwick. Charles A. Lindbery is County Engr.

PALA, CAL.—The UNION IRON WORKS CO., of Los Angeles, is stated to have secured a contract to erect a bridge over San Luis Ray River at Pala Reservation, at $4,615. Bids were opened by the Commissioner of Indian Affairs, Washington, D. C.

*GREEN RIVER, UTAH.—Contract for constructing bridge over Green River, bids opened on Sept. 11, has been awarded by the County to the MIDLAND BRIDGE CO., Gibraltar, Bldg., Kansas City, Mo., at $26,995.

ASSESSIPPI, MAN.—Bids will be received until Oct. 27 for the construction of a steel bridge across the Assiniboine River here. F. G. Richardson, Assessippi, is interested.

*VANCOUVER, B. C.—Bids will be received by the Mayor and Council until 4 p. m., Oct. 25, for building a bridge over False Creek, between Bridge St. and Beatty St. Waddell & Harrington, of Kansas City, Mo., are Engrs. For details see advertisement in this issue.

BUILDINGS.

SPRINGFIELD, MASS.—We are officially advised that the Hampden Hotel Co., of Springfield, has had plans prepared by Samuel M. Green, Inc., Springfield for an 8-story hotel to cost $500,000. The building will be fireproof, of stone, brick and steel construction and will be known as "Hotel Kimball." It will contain 300 rooms.

SPRINGFIELD, MASS.—B. Hammett Seabury, Arch., Besse Bldg., Springfield, has completed plans for a church to be erected at Union and Hancock Sts. for St. John's Congregational Church, Rev. William N. De Berry, pastor. It will be of frame construction, about 60 ft. square, with a stone tower. There will be steam heat, electric lights and all conveniences. Work probably will be started next spring.

WOONSOCKET, R. I.—Bids were received as follows by James Knox Taylor, Superv. Arch., Treasury Department, Washington, D. C., on Sept. 28 for the construction of a post-office building at Woonsocket, R. I.: William Williams, Providence, R. I., $80,000; A. E. Stevens Co., Binghamton, N. Y., $75,800; Norcross Bros. Co., Worcester, Mass., $82,800; Oscawana Bldg. Co., 209 Fifth Ave., New York, $68,700; William H. Fissell & Co., New York, $72,500; E. K. Watson Co., Warren, R. I., $84,975; Wills & Marvin Co., 1170 Broadway, New York, $69,933; Conners Bros. Co., Lowell, Mass., $78,000; J. W. Bishop Co., Providence, R. I., $73,221; Woodbury & Leighton, Boston, $80,000.

MIDDLETOWN, CONN.—W. D. Johnson, Inc., Arch., 26 State St., Hartford, Conn., are preparing plans for the nurses' home to be erected at the Hospital for the Insane in Middletown. It will be about 34 x 175 ft., three stories high, fireproof, with brownstone and limestone trim, slate roof and steam heat. There will be 68 rooms, besides parlor and reception room. The appropriation is $75,000.

NEW HAVEN, CONN.—Frank M. Andrews & Co., Archs., Waldorf-Astoria, N. Y., will prepare plans for the proposed $800,000 hotel to be erected on the site of the present New Haven House at New Haven, and that preliminary plans will be submitted to the Board of Directors soon. The general contract has been awarded to V. J. HEDDEN & SONS CO., 1 Madison Ave., New York, who will award the sub-contracts to local contractors as far as it is possible to do so. Charles P. Taft, of New Haven, is interested in the project and the hotel will be called Hotel Taft.

NEW YORK, N. Y.—We are officially advised that structural work is to begin soon on the sanitary tenements which Mr. and Mrs. W. K. Vanderbilt, Sr., as owners, are to erect in the north side of 77th St., through to 78th St., the south side, 173 ft. east of Ave. A, to cost approximately $700,000. As planned by Henry Atterbury Smith, 1811 Broadway, the building will have six stories and will be in four parts, covering a plot 223 x 200 ft., with brick walls and reinforced-concrete floors, and partitions fireproof throughout, but otherwise as economically built as possible. There will be steam or hot water heating from a central plant, gas ranges, drying rooms and extra laundries in basement and all the usual model tenement improvements. The site is being excavated. Estimates will be taken on all branches of materials and labor in a few days by the architect. No contract except for excavating has yet been issued.

Plans are being completed for the 12-story fireproof elevator apartment house which George F. Johnson & Sons, Westchester and Prospect Aves., the Bronx, are to erect at the northwest corner of Broadway and 113th St., to cost about $1,500,000. The building will measure 175 x 125 ft., containing apartments for 48 families. The owners will have charge of all contracts, awarding all the work. P. R. Moses, 45 West 34th St., will be the Steam and Electrical Engr. George and Edward Blum, 505 Fifth Ave., are Archs.

The American Woolen Co., 126 Fifth Ave., has decided to build in this city a central salesroom and warehouse for its selling department. The new building will be erected on Fourth Ave. and 18th St. The probable cost is about $1,000,000, including land. The building is to be built and financed by the American Woolen Co., which will use the greater portion of the 18 floors itself, renting such space as it does not now require. The new building probably will be finished for occupancy about Feb. 1, 1910.

The general contract for the fireproof 5-story brick and limestone office building, 75 x 100 ft., which Stuard Hirschmann, 200 Broadway, New York, is to erect on Court Sq., Long Island City, has been awarded to the E. E. PAUL CO., of 289 Fourth Ave., New York. The building is to cost approximately $125,000, and has been leased by the City of New York as the tax headquarters of Queens County. Floyd Y. Parsons, 1135 Broadway, New York, prepared the plans.

NEW YORK, N. Y.—Bids were received as follows by William F. Baker, Police Comr., for completing the contract executed by the New York Steam Fitting Co., Feb. 15, 1906, which was declared abandoned, for furnishing all labor and furnishing and erecting all the materials necessary to install the heating and ventilating system, boilers and steam piping in the new building to be erected on the block bounded by Grand, Center and Broome Sts., and Center Market Pl., Manhattan, for headquarters for the Police Department of the City of New York: New York Steam Fitting Co., 100 Washington St., $38,104; United Heating Co., $49,110; Baker Smith Co., 83 West Houston St., $45,869; Frank McSwiggan Co., $49,000; Gillis & Geoghegan, 537 West Broadway, $43,000; Wells & Newton Co., Ave. B and 17th St., $54,870; Walker & Chambers, 50 East 20th St., New York, $46,930; Frank Dobson, 319 East 53d St., $52,500; E. Rutzler Co., 414 East 49th St., $48,000; Baldwin Engineering Co., 709 West 33d St., $46,700; Rossenan & Bracken Co., $49,000.

The Clarendon Hotel, located at the southeast corner of Fourth Ave. and 18th St., purchased about a year ago by Henry Corn, of 341 Fifth Ave., is to be torn down and immediately replaced with a 20-story high-class office building of the best modern type. The site takes in a plot fronting 78 ft. on Fourth Ave. and 175 ft. in East 18th St. The upper stories of the structure will be divided into offices, while the lower floors will be left open and later partitioned to suit tenants. There will be seven high-speed electric passenger elevators. The contract for furnishing the structural steel has been awarded to the HAY FOUNDRY & IRON WORKS, 114 East 28th St. No other contract has been awarded. The estimated cost of the building, not including the cost of the land, is approximated at between $1,200,000 and $1,500,000. Maynicke & Franke, 298 Fifth Ave., are Archs.

The Fort View Construction Co., Robert E. Chamberlain, Pres., will build 6-story elevator apartments from designs filed by Max C. Heidelberg, Arch., 320 Fifth Ave., at the southeast corner of Haven Ave. and 181st St. The house will contain 30 suites. There will be a central court. The cost will be $180,000, and the dimensions 114 x 101.11 ft.

NEW YORK, N. Y.—Bids are asked by William F. Baker, Police Comr., until 10 a. m., Oct. 5, for furnishing all the labor and materials required in making repairs to the heating systems of various police stations throughout the city.

The general contract has been awarded to WILLIAM CRAWFORD, 5 East 42d St., and the E. & J. MARRIN CO., 520 East 18th St., has the excavating for the residence, five stories, 28 x 100 ft., to be erected at 41 East 65th St., for B. B. Sloan, 38 Wall St., to cost $70,000. Trowbridge & Livingston, 527 Fifth Ave., New York, are Archs.

Albert Morris, Arch., 41st St. and Park Ave., is drawing plans for four 5-story apartment houses to be erected at the southeast corner of 180th St. and Clinton Ave. for the Brook Construction Co. The building will cost about $150,000.

The Workingmen's Educational Association has filed plans for a clubhouse in the Bronx, to cost $200,000. The architects are C. Schaefer, Jr., and Frederick Jaeger, 461 Tremont Ave., the Bronx. The new building will be erected on a plot 50.4 x 172.10 ft. on the east side of Washington Ave., 161 ft. south of 164th St. It will be five stories high in front and three and a half stories in the rear. The material will be brick and limestone, with ornamental facades.

We are officially advised that Herbert M. Baer, Arch., 542 Fifth Ave., has prepared plans for the 3-story restaurant building, 78.9 x 177 ft., to be erected by James Churchill at Broadway and 49th St. The new structure will be three stories high and will cost about $300,000. Bids will be received in October.

SARATOGA SPRINGS, N. Y.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at Saratoga Springs, N. Y., to M. P. WELLS, Philadelphia, at $79,907.

NEWARK, N. J.—The Building Committee of the Newark branch of the Y. W. C. A. Miss Annie M. Grinnell, 183 Mt. Prospect Ave., Newark, Chn., reports encouraging progress in the work of raising $350,000 for plot, building and equipment for the new headquarters of the association in that city. The 7-story structure will stand at 562 Broad St., directly opposite Washington Pl. No contracts have been let. Miss C. M. Adams is Gen. Secy., 14 East Park St.

PITTSBURG, PA.—The Memorial Hall of the Western Theological Seminary will be replaced by a $125,000 dormitory structure early next spring, or as soon as Rev. Dr. James A. Kelso, Pres. of the seminary, raises the remainder of a fund started for that purpose.

The Bureau of Building Inspection has issued a permit for the H. C. Frick office building, at South Highland Ave. near Penn Ave., to cost $600,000. It will be of brick and terra cotta and will be 13 stories in height.

BUTLER, PA.—The contract for constructing the proposed court-house has been awarded to R. B. TAYLOR, at $117,700.

ELIZABETHTOWN, PA.—The Committee of the Grand Lodge of the Masonic Order in Pennsylvania, appointed to select a site for the proposed Masonic Home, has chosen a tract near Elizabethtown, Lancaster County. Construction of buildings will begin soon. About $2,000,000 will be expended on grounds and buildings. George H. Orlady, Huntington Pa., is Grand Master.

PHILADELPHIA, PA.—Plans are being completed for a large flat house which Frank Mauran contemplates erecting at 310-14 South 13th St., at a cost of about $600,000. If the project is consummated within the time expected the building will be ready for tenants in October, 1910. According to the plans, which are being made by Cope & Stewardson, Archs., 320 Walnut St., the building will be 15 stories high in the French architectural style of the period of Louis XVI. It will measure about 50 × 250 ft., the lot being 57.6 × 250 ft. to Juniper St.

Estimates have been invited on plans prepared by Benjamin R. Stevens, for the proposed church, to be erected at the southeast corner of 58th and Thompson Sts. for the West Girard Ave. Baptist Church. The building will be of stone, 92.8 × 70 ft., in a modification of the Gothic style, with a corner tower 64 ft. high. The basement will contain a Sunday school and gymnasium and the church auditorium will take up the main floor. The cost will be about $50,000.

Plans have been completed by Milligan & Weber, Archs., 520 Walnut St., for an apartment house, to cost about $250,000, which is to be built by the Comber Estate at the northwest corner of 22d and Chestnut Sts. The building which it is proposed to erect will occupy a lot 60 × 100 ft. It will be of brick with an ornamental terra-cotta front and divided into suites of housekeeping apartments.

CHESTER, PA.—Seymour and Paul A. Davis, Archs., 1600 Chestnut St., have been commissioned to plan a Masonic temple to be built at Fourth and Market Sts., Chester, for Chester Lodge, 236 F. and A. M., at a cost of about $50,000.

BALTIMORE, MD.—Bids are asked by the Board of Awards until 11 a. m., Oct. 6, for alterations to the Baltimore city jail. Edward D. Preston is Inspector of Bldgs.

The Architectural Commission has decided to instruct the architects, Baldwin & Pennington, Archs., to proceed with the plans for the new Polytechnic Institute as drawn up by the Architectural Commission of the School Board. The plan provides for a group of buildings, including the present structures as a center, at the Maryland School for the Blind site. The Architectural Commission also has approved the plans, subject to the approval of the Architectural Committee of the School Board, for the school to be located at Gough and Stiles Sts., and has approved the plans for the new engine house to be at the corner of Edmondson Ave. and Bentalou St.

MORGANTOWN, W. VA.—The Board of Control has awarded the contract for erecting the south wing of Woodburn Hall to HACKNEY HARTMAN.

ATLANTA, GA.—John W. Grant and the Third National Bank have decided to erect a 19-story bank building at Broad and Marietta Sts., at a cost of about $500,000.

*ALBANY, GA.—Bids are asked by James Knox Taylor, Superv. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Nov. 3, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of the U. S. post-office and court-house building at Albany.

NEW ORLEANS, LA.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of a post-office at New Orleans, La., to WELLS BROS. CO., 160 Fifth Ave., New York, at $817,000. Time, April 1, 1911.

LIMA, OHIO.—The contract for building the $200,000 central traction station of the Ohio Electric Railway Co. of this city, has been let to VAL HEIL. The building is to be finished within one year.

TOLEDO, OHIO.—Dr. Clarence S. Ordway has let a contract for the immediate erection of an 18-room hospital on his property at Oak and Fassett Sts., to FRED RINKER, of Toledo. Mr. Rinker will begin work on the building at once and it is to be completed about Jan. 1. The building will be three stories high. The top floor is to be subdivided into wards and the lower stories used for private rooms. There will be two operating rooms and a fully equipped laboratory. The institution will be known as the East Side Hospital.

INDIANAPOLIS, IND.—Harry Murphy has ordered plans on which bids will be asked for the construction of a 5-story brick business block at 24 East Georgia St. Estimated cost, $400,000. Samuel H. Brubaker is Arch.

INDIANAPOLIS, IND.—Bids are asked by the Board of School Commissioners at 312 North Meridian St. until 8 p. m., Oct. 12, for the construction of a library building on East Washington St. The general contract will include electric wiring and the installation of a heating system. J. E. Cleland is Business Director.

AUBURN, IND.—Commissioners of De Kalb County are asking for bids for the construction of a court-house estimated to cost $300,000. Mahurin & Mahurin, Ft. Wayne, Ind., are Archs.

CHICAGO, ILL.—The Chicago "Record Herald" states that Bernard A. Eckhart has agreed to erect a warehouse building at the northeast corner of Carroll Ave. and Ada St. for Levin Bros. The lot extends north to the railroad tracks. The structure will be four stories and basement. It will be of mill construction and occupy a ground area 66 × 140 ft. W. Carbys Zimmerman is preparing plans for the building, which will cost more than $75,000. The construction contracts will be let soon. Levin Bros. are now located at 615 West Randolph St. They will move into the new building as soon as it is completed.

SALEM, ILL.—Marion County is to erect a court-house to cost $100,000. The structure will be three stories high and will be modeled after the Champaign Court courthouse.

OSHKOSH, WIS.—We are officially advised that Foeller & Schober, Archs., Green Bay, Wis., have been commissioned by the State Board of Control of Charitable and Penal Institutions, Madison, Wis., to prepare plans for the proposed new hospital for criminal insane, to be erected at Oshkosh, seat of the Northern Hospital for Insane. The 1909 Legislature appropriated $100,000 for this purpose.

FORT RILEY, KAN.—Bids are asked by Capt. W. M. Whitman, Constr. Q. M., until 10 a. m., Oct. 20, for construction, plumbing, heating, and electrical work in one 4-set officers' quarters, one civilian teamsters' quarters, and one 4-set civilian employes' quarters.

MANHATTAN, KAN.—James Knox Taylor, Superv. Arch. of the Treasury Dept., Washington, D. C., has awarded contract for the construction of post-office at Manhattan, Kan., to the MANHATTAN CONSTRUCTION CO., at $41,825. Time, Nov. 1, 1910.

OMAHA, NEB.—Bids are asked by Capt. John L. Hines, Q. M., until 10 a. m., Oct. 22, for construction, electric wiring and plumbing for the Quartermaster's stables, Omaha Depot.

HELENA, MONT.—Bids are asked by the State Board of Examiners, Capitol, 2 p. m., Nov. 10, for furnishing all labor, materials and equipment necessary to complete additions to and alterations in the State Capitol building at Helena.

ST. LOUIS, MO.—A hotel is to be built at the corner of King's Highway and McPherson Ave. on a lot, 165 × 250 ft. The building will be nine stories high, and, outside the ground, will represent an investment of at least $500,000. Fletcher R. Harris, of the McNair-Harris Realty Co., Eighth and Locust Sts., is interested.

FARMINGTON, MO.—Bids are asked by W. R. Lang, Chn. of the Board of Managers of State Hospital No. 4, Farmington, Mo., until noon, Oct. 11, for alterations and additions to the infirmary building at said hospital. Plans and specifications are on file at the hospital and with Klipstein & Rathman, Archs., Chemical Bldg., St. Louis, Mo.

AMARILLO, TEX.—We are officially advised that the Railroad Commission has received plans for a passenger station and a freight depot and office building to be erected by the Atchison, Topeka & Santa Fe Ry. Co. at Amarillo. The proposed building will cost $50,000. The passenger station will contain a restaurant with modern appointments. C. A. Morse is Ch. Engr., Topeka, Kan. The contract has been let to C. A. FELLOWS, of Los Angeles, Cal.

OKLAHOMA CITY, OKLA.—MUNN & BENOIT have secured the contract for erecting a 3-story apartment house, 75 × 140 ft., at Third and Robinson Sts. for A. Ketcham, at a cost of $60,000.

FORT COLLINS, COLO.—The Executive Committee of the State Board of Agriculture has awarded to W. E. TOWER, of Denver, the contract for completion of the Irrigation Engineering Building at the State Agricultural College at about $40,000.

CLIOVIS, N. MEX.—The Atchison, Topeka & Santa Fe Ry. Co. will erect a brick and frame freight station and storage house. The building will be 147 × 31 ft., and will have in addition 100 ft. of uncovered platform. C. A. Morse, Topeka, Kan., is Ch. Engr.

MONTESANO, WASH.—Plans and specifications for a $150,000 court-house to be built at Montesano have been drawn by Reid & Vernon, of Aberdeen, Wash. A jail will be erected in the rear of the building.

SAN DIEGO, CAL.—The Atchison, Topeka & Santa Fe Ry. Co. is contemplating erection of two freight houses in San Diego. Each building will cover a city block, the site selected lying between California, Atlantic, F and H Sts. The cost is estimated at $250,000. C. A. Morse is Ch. Engr., Topeka, Kan.

SAN FRANCISCO, CAL.—Improvements are contemplated by the Sharon Estate Co., Post and Longworth Sts., in the vicinity of the Palace Hotel and plans and specifications have been drawn by George W. Kelham, Superv. Arch., of the Palace Hotel, for the first of these improvements in the form of an office building, which the Sharon Estate has leased through its agents, A. J. Rich & Co., to a client of that firm. The building is to be constructed at once by the Sharon Estate Co. on the so-called "government lot," at the corner of New Montgomery and Jessie Sts. It will have a frontage of about 265 ft. in Jessie St., a like frontage in Rose St., a 68-ft. frontage in New Montgomery St. and the same frontage in Annie St. The building will be of reinforced concrete, with the maximum provision for light on all four sides.

The northeast corner of California and Battery Sts. will be improved before the first of the year with a structure erected for the White Investment Co. The plans, by Lewis P. Hobart, Arch., Crocker Bldg., show a structure of ten stories and basement, subdivided into stores, offices and lofts. The materials employed mainly in construction are red brick, steel frame, stone and terra cotta trimmings for the exterior. The foundations are ready for the steel framework. The cost will be $200,000. A feature will be an elaborate vestibule, elliptical in form, that will be finished with Vermont statuary marble. Ornamental features for the exterior of the structure will include cast-iron balustrades at each floor level. The long lines of the design are relieved by high window openings and a large horizontal band at the ninth floor level, to be treated with figures, in relief.

BAKERSFIELD, CAL.—The returns from the recent bond election show that the vote was in favor of the bonds. Plans will at once be made for a new $400,000 court-house.

SALT LAKE CITY, UTAH.—We are officially advised that the Utah Hotel Co. has taken out a permit for the erection of a 10-story, 365-room brick and terra cotta hotel and store-rooms, to be built at Main and South Temple Sts., and to cost $1,200,000. The general contract has been let to the JAMES BLACK MASONRY & CONTRACTING CO., Wright Bldg., St. Louis, Mo.; the steel contract has been let to the AMERICAN BRIDGE CO., 30 Church St., New York, N. Y., and the foundations to JAMES STEWART & CO. Parkinson & Bergstrom, Security Bldg., Los Angeles, Cal., are Archs.

TORONTO, ONT.—The west wing of the Provincial Parliament buildings will be reconstructed on fireproof lines. The present timber supports and floors will be torn out, the plan of renovation decided upon contemplating the installation of steel beams with terra-cotta filling on concrete. The contract for the steel work has been awarded to the DOMINION BRIDGE CO., Toronto, which must have the material constructed and on the ground by Nov. 15, while THOMAS V. GEARING was the successful tenderer for the carpenter work. Prices for all material supplied are to be approved by the officials of the Public Works Department and the architect, E. J. Lennox, 164 Bay St. Hon. Col. J. S. Hendrie is Chn.

WINNIPEG, MAN.—We are officially advised that W. W. Blair, Arch., Nanton Bldg., has completed plans for the Rookery Building, 122 × 120 ft., on Smith St., to cost $155,000. It will be of reinforced concrete with three stories and basement. The contract has been let to G. H. WALTON, McIntyre Block.

W. W. Blair, Arch., Nanton Bldg., is preparing plans for a skyscraper to be erected on the present site of O'Connor's Hotel. Estimated cost, $100,000.

Plans are being prepared for an hotel to be erected here at a cost of $85,000. F. A. Myers, Fort William, Ont., is interested.

VANCOUVER, B. C.—Hon. George A. Cox, Senator, Toronto, Ont., one of the directors of the Canada Life Association, announces that the company is having plans prepared for a business block to be erected here at a cost of $275,000.

L. C. Gilman, Asst. Pres. of the Great Northern Ry. Co., has submitted to the Vancouver City Council his company's plans for the construction of a union passenger station and joint freight terminals in this city on the water front and foreshore at the head of Falco Creek.

WATER SUPPLY—IRRIGATION.

FORT STARK (Portsmouth post-office), N. H.—The Board of Water Commissioners, Portsmouth, has been instructed by the Quartermaster General, it is reported, to install at Fort Stark a 6-in. water main. Estimated cost, $7,103.

EASTHAMPTON, MASS.—We are officially advised that the contract for enlargement of Mt. Tom reservoir was awarded on Sept. 18 to DAN. O'CONNEL & SONS, of Holyoke, at $22,543. Other bids received were as follows: Flint Construction Co., Monson, $23,157; F. L. Allen, Worcester, $24,048; G. W. Carr Co., Worcester, $24,168; W. Orlando, Belchertown, $24,470; P. A. Breglio, Springfield, $28,410; Kiley & Girason, Northampton, $29,178; C. R. Gow, Boston, $33,229. W. C. Tannatt, Jr., is Town Engr.

WATERBURY, CONN.—Bids for piping the tunnel through the masonry dam at the Wigwam have been received by the city as follows: FRANK D. AURIO, $5,915 (awarded contract); F. J. Boas, $8,000.

Bids for stripping the side of the dam were: Goodman & Trumbull, $9,785; F. J. Boas, $11,060; Frank D. Aurio, $12,610; Edward McManus, $12,549.

AUBURN, N. Y.—The Board of Water Supply, J. Walter Ackerman, Supt., is having plans prepared by Hazen & Whipple, Archs., 103 Park Ave., New York, for pumping station and filtration plant. Estimated cost, $170,000.

BALDWIN (L. I.), N. Y.—The call for bids which were to have been received on Sept. 15 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, New York, for furnishing, delivering and erecting pumping plants, complete, at Hook Creek, Horse Brook and Baldwin pumping stations, Long Island, was withdrawn before date of opening.

NEWBURGH, N. Y.—Bids were opened by the Board of Water Comm[illegible]sioners, W. W. Hawks, Pres., on Sept. [illegible] for raising an earth dam and roadway, [illegible]ilding concrete masonry, stone riprap wall[illegible] and slope pav[illegible]ing, etc. Contract has bee[illegible] awarded to the TODD CONSTRUCTION [illegible] of Newburgh, at about $48,000.

NEW YORK, N. Y.—Bids [illegible]re received as follows on Sept. 15 by [illegible] H. O'Brien, Comr. Water Supply, Ga[illegible]d Electricity, for furnishing, delivering [illegible] erecting two pumping engines with fo[illegible]ations, steam and auxiliary piping, suct[illegible] and discharge piping and all other appur[illegible]inces and appliances, complete, in the [illegible] St. pumping station, Boro. Manhattan: [illegible]ry R. Worthington, 115 Broadway, New [illegible] York, $12,000; $56,500 and $73,900; Henry [illegible] Fox, $16,000; $59,000 and $85,000; N. F[illegible] Construction Co., 225 Fifth Ave., New York, [illegible]14,502, $68,450 and $86,506; Lord Electric [illegible] 214 W. 30th St., New York, $15,331, $64,[illegible] and $84,444.

Bids were also received a[illegible]lows on Sept. 22 for furnishing and insta[illegible]g 12,500,000-gallon steam turbine pum[illegible] two 225-HP. water tube boilers and all a[illegible]ssories at Jerome Ave. pumping station, Boro. of the Bronx: Turbine Equipment Co., 30 Church St., $10,500 and $8,900; N. [illegible] Construction Co., 225 Fifth Ave., $9,482 [illegible]d $9,026; E. Rutzler Co., $11,380 and $10,[illegible]; Lord Electric Co., 213 W. 40th St., $[illegible] and $8,900; Evans-Almiral Co., $12,000 [illegible] and $11,500; D'Olier Engineering Co., $10,[illegible] and $11,500; Grant Robrer, $9,990 and $11,200; Allis-Chalmers, Milwaukee, Wis., $[illegible],000 and $9,701.

ALBANY, N. Y.—Bids were received as follows on Sept. 20 by the Board of Contract and Supply for manufacturing, furnishing and delivering c.-i. water pipes and standard special castings for the Bureau of Water: Camden Iron Works, Camden, N. J., $22.80 a ton and $70 a ton for specials; U. S. Cast Iron Pipe & Foundry Co., 71 Broadway, New York, $24.20 and $50; Charles Miller & Son Co., Utica, N. Y., $22.75 and $50.

*ATLANTIC CITY, N. J.—The date of receiving bids for water mains, as advertised and as noted last week, has been changed from Oct. 17 to Oct. 19.

CAMDEN, N. J.—The City Council on Sept. 17 adopted the resolution that all ordinances, proposals or offers looking to sale of water to city by private persons or corporations be rejected and that the Water Committee proceed at once to provide for the future needs of the city by extending or increasing the present artesian water supply.

ALEXANDRIA, VA.—See item under Light and Power Plants.

CLARKSBURG, W. VA.—See item under Sewerage.

*WILMINGTON, N. C.—Bids will be received for materials and labor in connection with the construction of a distributing system by the Water and Sewerage Commission until Oct. 21. Plans and specifications may be consulted and blank forms procured at the office of the Commission, Wilmington, N. C., or at the office of Hazelhurst & Anderson, Consulting Engrs., Atlanta, Ga.

MOORESVILLE, N. C.—Bids are asked by the city until Oct. 1 for construction proposed water-works. A. Osobrne is Consulting Engr., Newton, N. C.

*ASHEVILLE, N. C.—Bids will be received by the City Clerk until Oct 15 for making water tight a 5,000,000-gallon concrete reservoir, built by the Faragher Engine Co. B. M. Lee is City Engr.

EUFAULA, ALA.—The city has awarded contract to J. B. McCRARY & CO., Empire Bldg., Atlanta, Ga., to construct settling basin for water-works.

KOSCIUSKO, MISS.—Surveys are being made for a system of water-works and a system of house sewers, plant to consist of artesian wells, air lift, steam boilers and pumps, steel tower and tank, c.-i. mains, fire hydrants and gate valves; also about nine miles of pipe sewers. Walter G. Kirkpatrick, of Jackson, Miss., is Engr.

NATCHEZ, MISS.—We are officially advised that Hazlehurst & Anderson, Consulting Engrs., Candler Bldg., Atlanta, Ga., have been retained by the Water Commission to report upon needed improvements to consist of extension of mains, erection of new water tower, etc.

WASHINGTON, LA.—Bids are asked by the city until Oct. 1 for furnishing material for the construction of extensions to the water-works.

EAST ST. LOUIS, ILL.—The Belleville Deep Well Water Co., of Belleville, Ill., is planning to install a treating plant at their East St. Louis pumping station. If franchise rights can be obtained in East St. Louis they will treat for iron, lime and magnesia.

CHICAGO, ILL.—Bids will be received until Oct. 6, extension of date from Sept. 22, by the Sanitary District of Chicago, I. J. Bryan, Clk., for the following: Division A, high-pressure pumping unit; Division B, induction motors.

WAUKEGAN, ILL.—The following are bids opened by Council for constructing the settling well: A. H. Enmark, Lake Forest, $4,396; Illinois Portland Cement Paving Co., Chicago, $4,750, finished in concrete work, $4,840; Calumet Construction Co., $4,840, substitute wall of concrete or brick, $6,490. Figures include necessary piping, etc.

ROCK ISLAND, ILL.—The Board of Local Improvements has let contracts for laying of sewer and water mains in Island View Heights and for the 40th St. water main to P. F. TRINKENSCHUH, the lowest bidder. The Paving & Construction Co., of Chicago, was the only other bidder.

SHEBOYGAN, WIS.—Bids are asked until 3 p. m., Oct. 9, by Theodore Dieckmann, Pres. Bd. Water Comrs., for labor and material, excepting valves, jute, c.-i. pipe and specials, for the construction and completion of a 12-in. Sheboygan River crossing at Niagara Ave., approximately 3[illegible] ft. long.

BETTENDORF, IOWA.—See item under Light and Power Plants.

FOLEY, MINN.—Bids will be received by Frank J. Kotsmith, Village Recorder, until Oct. 4 for constructing water-works and pumping station from plans of Oscar Clausen, Consulting Engr., St. Paul, Minn.

MONTEVIDEO, MINN.—Bids are asked until 8 p. m., Oct. 4, by the City Council for constructing and laying water mains and connections. J. M. Severence is City Clk.

RED WING, MINN.—Contract for a 750,000-gallon concrete reservoir and pump house here has been awarded to the LA CROSSE CONSTRUCTION CO., La Crosse, Wis., at $10,224. L. P. Wolf, St. Paul, is Engr.

DETROIT, MINN.—See item under Light and Power Plants.

MEADE, KAN.—Contract for furnishing material and constructing water-works, including tower and tank, capacity 50,000 gallons, two 240-HP. gasoline engines and two 350-gallon per minute vertical triplex power pumps; also furnishing f. o. b. cars Meade, c.-i. pipe, special castings, hydrants and valves, has been awarded to the SQUIRES ELECTRIC CONSTRUCTION CO., 613 Wyandotte St., Kansas City, Mo., at $18,400. J. S. Worley Co. are Engrs., Kansas City, Mo.

DODGE CITY, KAN.—We are officially advised that J. S. WORLEY CO., Engrs., Reliance Bldg., Kansas City, Mo., have received the contract for the water-works to be constructed at Dodge City. Estimated cost, $100,000.

CARROLL, NEB.—Bids will be received by the Village Clk. until Oct. 8 for the construction of water-works. The work comprises steel tank and tower, gasoline engines, cement block house, well and 1½ miles of mains. Charles P. Chase is Engr., Clinton, Iowa.

HEBRON, ARK.—The citizens have voted to issue $12,000 of bonds for water-works extensions, and $4,500 for a trunk line sewer. C. H. Meeker, of McCook, is Engr.

LITTLE ROCK, ARK.—The St. Louis, Iron Mountain & Southern Ry. Co., E. F. Mitchell, Engr. of Construction, St. Louis, Mo., has secured a permit to construct the proposed water tank and pumping station for new union depot. The water tank will cost $4,000 and pumping station and reservoir $7,000.

LAKE VILLAGE, ARK.—GUSTIN MATTHEWS, of Argenta, has secured contract for constructing water-works here, at about $26,000.

BLYTHEVILLE, ARK.—We are officially advised that the City Council has passed a resolution to let a franchise for a system of water-works and has instructed T. W. Davis, Mayor, to advertise for bids. When franchise is let for water-works a system of sewers will be installed.

RYAN, OKLA.—See item under Light and Power Plants.

HENNESSEY, OKLA.—The city voted $24,000 of bonds to extend and improve water-works, etc.

FORT GIBSON, OKLA.—Bids are asked until Oct. 12 by the town for the complete installation of a water-works system. All bids received on Sept. 16 were rejected. M. A. Earl & Co., of Muskogee, are Engrs.

OURAY, COLO.—Bids will be received until Oct. 12 by Charles A. Sperber, Mayor, for constructing two concrete flumes for carrying the waters of Portland and Cascade Creeks within the city limits, about 2,450 ft. and 2,300 ft. in length, respectively.

NATCHES, WASH.—The U. S. Reclamation Service, North Yakima, has awarded contract to construct 18 miles of laterals, bids opened on Sept. 1, to D. H. TRAPHAGEN, of Seattle, at $31,500. Noted last week.

SEATTLE, WASH.—Bids were received as follows on Sept. 10 by the city for laying water mains in Spokane St. and other streets: BADENHAUSEN & HULL, $180,611 (awarded contract); International Contract Co., Central Bldg., Seattle, $181,673; Paul Steenstrup, Seattle, $194,605. R. H. Thomson is City Engr.

SEATTLE, WASH.—The Board of Public Works has awarded contract to C. W. COLT, Seattle, at $5,214, for laying water mains. R. H. Thomson is City Engr.

SALT LAKE CITY, UTAH.—Contract for the building of the "puddle wall" of the Piute reservoir project has been let by the State Board of Land Commissioners to the WESTERN CONSTRUCTION CO., of Sevier, at $22,000.

WESTON, ONT.—The town will expend $37,000 for the construction of a water-works system. Willis Chipman, C. E., 103 Bay St., Toronto, Ont., is Engr.

WINNIPEG, MAN.—The BRYDGES ENGINEERING & SUPPLY CO. has been awarded contract for the installation of a pumping plant here for the Canadian Northern R. R. Co., which will have a capacity of 500,000 gals. per 24 hrs.

VICTORIA, B. C.—Bids are asked until 4 p. m., Oct. 11, by W. W. Northcott, City Purchasing Agt., for the supply of 2,500 ft. of 12-in. weldless steel spigot and faucet tubes, 15,000 ft. of 8-in., 20,000 ft. of 6-in. and 50,000 ft. of 4-in.

NEW WESTMINSTER, B. C.—J. C. McDONALD, Grand Forks, B. C., has been awarded contract by the city to supply steel piping for the new municipal reservoir, at $218,827.

NEW WESTMINSTER, B. C.—See item under Streets and Roads.

CHIHUAHUA, MEXICO.—See item under Streets and Roads.

SEWERAGE.

(denotes that this work is advertised in Engineering News.)*

PORTLAND, ME.—Bids for the Deering Centre branch sewer to run through various lands in that section and through Best, Mabel and Alba Sts., a distance of about 6,400 ft., were opened on Sept. 21 at the office of the Commissioner of Public Works. The bids were as follows: Worster & Wilson, $8,384; Angello Lorello, $6,940; Mahoney Construction Co., $6,683; Forgione & Romano Co., $6,101; JOHN W. GULLIVER, $5,847 (awarded contract).

NORTH ATTLEBORO, MASS.—JAMES D. REILLY, of Boston, has been awarded contract by the Sewerage Commission to construct Section 4 of the North Attleboro sewer, and C. E. TRUMBULL CO., of Lawrence, the contract for Section 5.

BOSTON, MASS.—Guy C. Emerson, Supt. St. Dept., on Sept. 21, awarded contract to construct a sewer in the Fenway, between Brookline Ave. and Ave. Louis Pasteur, Roxbury, to A. M. CUSACK, at $13,864, the lowest of six bids.

*BOSTON, MASS.—Plans and specifications are on file at the office of Engineering News, New York, for constructing about 6,000 ft. of open channel, 3,450 ft. of 33-in. × 36-in. concrete drain, and 960 ft. of 24-in. vitrified clay pipe drain, together with the necessary catch basins, culverts, branch drains, manholes and other appurtenances, in Framingham, Natick and Wayland, Mass. Bids are asked until Oct. 4 by the Metropolitan Water and Sewerage Board, William N. Davenport, Secy.

NEW BRIGHTON (S. I.), N. Y.—Bids are asked until noon, Oct. 14, for constructing temporary sanitary, temporary combined and temporary sewers in various streets.

LONG ISLAND CITY (L. I.), N. Y.—Bids were opened on Sept. 18 at the office of Lawrence Gresser, Pres. Queens Boro., for sewer construction. Contracts have been awarded as follows: To PEACE BROS., of Flushing, for numerous sewers, $36,099; to GREEN CONTRACTING CO., for Ely Ave. sewer, $16,333.

SOUTH AMBOY, N. J.—Plans of S. J. Mason, City Engr., for a complete system of sanitary sewers for this city were accepted by Council on Sept. 21. Estimated cost of the system complete, about $100,000.

TRENTON, N. J.—Bids will be received until 8 p. m., Oct. 5, by the Common Council for constructing a sewer in Howard and Hancock Sts.; also a drain in Parkside Ave. and through private lands. Harry B. Salter is City Clk.

ELIZABETH, N. J.—Bids will be received until Oct. 1 by the City Council for constructing sewers in Clark, Ripley and Inslee Places, requiring in all 2,733 lin. ft. of 10 and 6-in. pipe sewer, etc.

WASHINGTON, N. J.—Williams, Proctor & Potts, 17 Battery Pl., New York, have prepared preliminary plans for the sewerage system and disposal plant to be constructed here. Estimated cost, about $60,000. An election is to be held, probably on Nov. 30, to vote on the question of issuing bonds for this purpose.

WERNERSVILLE, PA.—We are officially advised that bids were received as follows on Sept. 14 by the Trustees of the State Asylum for the Chronic Insane, Wernersville, for the construction of a sewage disposal plant: W. H. Opperman, Harrisburg, Pa., $22,764; New York Sewage Disposal Co., 1 Madison Ave., New York, $19,078; E. E. Bratton, Lewiston and Philadelphia, Pa., $18,265; Field, Barker & Underwood, Inc., Arcade Bldg., Philadelphia, $20,785; J. N. Bastress & Co., Harrisburg, $20,170; P. L. Scholl, Reading, Pa., $21,532; O'Toole & Dempsey, Philadelphia, $19,999; Thomas & Watkins, Woodbury, N. J., $18,465; W. H. Mengeringhausen, Catasauqua, Pa., $20,042. Engineer's estimate, $21,476.

CUMBERLAND, MD.—The city has awarded contract to GEORGE VANGE & CO., of Cumberland, to construct conduit and 24-in. sewer to carry off water of Dry Run. Estimated cost, $10,000.

WASHINGTON, D. C.—Bids were received as follows on Sept. 27 by the Commissioners of the District of Columbia for the construction of sewers in the District: (a) Warren F. Brenizer Co., (b) James A. Coyle, (c) George Hyman, (d) Thomas R. Riley & Co., (e) Ryan & Reilly, (f) John E. Lyons, (g) C. B. Clark & Co., (h) E. G. Gummel, (i) Diffenbaugh Construction Co., Inc., all of Washington, D. C.: Sections of intercepting sewer, F and G, Boundary to Brookland: Section F, (a) 40 cts., (b) 45 cts., (c) 50 cts., (d) 65 cts., (e) 60 cts., (f) 65 cts., (g) 55 cts., (h) 60 cts.; concrete masonry "D," (a) $6.80, (b) $6.48, (c) $8.25, (d) $7.60, (e) $8.90, (f) $7.49, (g) $9.25, (h) $6.60; Section G, ordinary excavation, (a) $1.40, (b) 90 cts., (c) 98 cts., (d) 85 cts., (f) 75 cts., (g) $1.10, (h) 70 cts.; invert brick masonry, (a) $23, (b) $26, (c) $21, (d) $22.50, (f) $20, (g) $24.25, (h) $20; sewer brick masonry, (a) $14, (b) $24, (c) $15, (d) $14.50, (f) $15.50, (g) $17.50, (h) $14; concrete masonry "D," (a) $8.25, (b) $8, (c) $7.50, (d) $8.60, (f) $7.84, (g) $12.25, (h) $7. Storm water outlet, Anacostia trunk sewer: Ordinary excavation, (a) $1, (c) $1.50, (h) $1; concrete masonry "B," (a) $8, (c) $9.50, (h) $10; concrete masonry "C," (a) $7.50, (c) $9.50, (h) $9.50; piling, per lin. ft., (a) 24 cts., (c) 35 cts., (h) 30 cts.; lumber, per M ft., B. M., (a) $50 (c) $50; (h) $50; sewer brick masonry, (a) $13, (c) $15, (h) $22; vitrified brick masonry, (a) $20, (c) $20, (h) $25; Piney Branch trunk sewer: Ordinary excavation, (a) 50 cts., (c) 86 cts., (g) 90 cts., (h) 75 cts., (i) $1.63; tunnel excavation, (a) $16, (c) $28.35, (g) $23.25, (h) $50, (i) $41.25; sewer brick masonry, (a) $13, (c) $13, (g) $18.50, (h) $16, (i) $13.95; invert brick masonry, (a) $21, (c) $19, (g) $25, (h) $22, (i) $20.80; concrete masonry "C," (a) $6.75, (c) $7.90, (g) $9.25, (h) $7.50, (i) $7.75; concrete masonry "B," (a) $7.10, (c) $8.35, (g) $9, (h) $8, (i) $8.15.

NORFOLK, VA.—Arthur C. Freeman, Engr., has completed plans for the construction of a sewer system in Lafayette Residence Park. Construction to be done by company's force.

RICHMOND, VA.—City has awarded contracts for construction of sewers as follows: Williams and Christian Sts., CHEATWOOD & CLAY, at $10,332; Christian St., extended and other streets, same contractor, at $18,005; Oakwood Ave., H. L. DRISCOLL, at $10,223. Both contractors of Richmond.

The Street Committee has been authorized to contract for sewers in 32d, Leigh and P Sts. Estimated cost, $12,685, and in Mechanicsville Ave. and Carrington st., estimated cost, $17,700.

CLARKSBURG, W. VA.—The city has voted $270,000 of bonds for sewer system, water-works and street improvements.

HUNTINGTON, W. VA.—Bids will be received by the City Commissioners until 2 p. m., Oct. 18, for furnishing all the material and labor for constructing a 12-in. lateral sewer in the alley betwen Sixth and Seventh Aves., from Sixth to Third Sts., according to plans and specifications on file in the office of the City Engineer.

NEW DECATUR, ALA.—Contract for constructing a sewer system, bids opened on Sept. 15, has been awarded by the city to WILLIAM LEFTWICH CO., of Nashville, Tenn., at $19,403. W. A. McCalla, of Decatur, is Engr.

BRIGHTON (Bessemer post-office), ALA.—The city has voted $10,000 of bonds for the construction of a sewer system.

KOSCIUSKO, MISS.—See item under Water Supply—Irrigation.

BINGHAMTON, TENN.—Contract for the sewer system, including excavation and filtration plant, it is reported, has been awarded to H. W. BRENNEN, at about $21,000. J. A. Omberg, Jr., of Memphis, is Town Engr.

NASHVILLE, TENN.—The Board of Public Works has awarded contracts to SULLIVAN & HAGERTY and T. I. CURTIS & CO., both of Nashville, for the construction of sewers.

*LOUISVILLE, KY.—Bids were opened by the Commissioners of Sewerage, W. C. Nones, Chn., on Sept. 17, for constructing a portion of Section D, Southern Outfall Sewer, Contract 56. The lowest bid received was submitted by T. B. Jones & Co., of St. Louis, Mo., at about $45,000. J. B. F. Breed is Ch. Engr.

EAST LIVERPOOL, OHIO.—Bids will be received by the Board of Public Service until noon, Oct. 7, for the construction of a 6-in. sanitary sewer in Blakely St., with 4-in. laterals and the necessary manholes and flush tank. A. S. Hughes is Clk.

SPRINGFIELD, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 4, for the construction of sewers in various streets. William H. Mahoney is Clk.

WEST LAFAYETTE, IND.—N. B. MOORE, West Lafayettte, has been awarded contract, at $5,500, for laying a vitrified sewer pipe system, including manholes, lampholes and catch basins.

EVANSVILLE, IND.—Bids will be received until Oct. 9 by the city for the construction of sewer in alley between Michigan and Virginia Sts. W. F. Wunderlich is Clk Bd. Pub. Service.

EAST MOLINE, ILL.—E. R. HARDING CONSTRUCTION CO., Racine, Wis., has received contract, at $37,000, for the construction of sewers and water mains in the territory of the New Shop addition.

LYONS, ILL.—P. McDONNELL has been awarded contract, at $200,000, for laying sewer and water mains here.

JANESVILLE, WIS.—See item under Streets and Roads.

BETTENDORF, IOWA.—See item under Light and Power Plants.

INDIANOLA, IOWA.—Bids will be received by J. H. Clark, City Clk., until Oct. 4, for the construction of 3,000 ft. of 6 to 12-in. sanitary sewers. A. H. Gilliland is City Engr.

*VINTON, IOWA.—Bids are asked until 7.30 p. m., Oct. 4, by the City Council for the construction of a lateral sewer in Main St., from Whipple St. to Grant St., consisting of 2,020 lin. ft. of 8-in. sewer, five manholes and one flush tank. W. E. Klingaman is City Clk.

CEDAR RAPIDS, IOWA.—All bids opened on Sept. 13 by the City Council for constructing the Youngs Hill sanitary sewer are reported to have been rejected, and new bids will be asked. The lowest bid was submitted by Dearborn & Jackson, of Cedar Rapids, at $43,887. The work comprises the following: 6,200 ft. of 8-in. pipe, 1,200 ft. of 15-in., 1,000 ft. of 12-in., 2,400 ft. of 10-in., 10,800 ft. of 8-in., 26,300 ft. of 6-in. pipe, 147 manholes, ten flush tanks, 100 cu. yds. concrete, 500 cu. yds. rock excavation. I. J. Storey is City Clk.

KEARNEY, NEB.—Bids are asked until Oct. 4 by George E. Ford, City Clk., for the following work: Storm sewer in Second Ave. at 17th St., consisting of 1,646 ft. of 24-in. steel culvert pipe; sewer in alley between D and E Aves., 385 ft. long; sewer in alley between 29th and 30th Sts.; sewer in alley between F and G Aves.

SIOUX FALLS, S. DAK.—J. W. Johnston, of Sioux Falls, is preparing plans for sewer improvements. Estimated cost, $75,000, the larger sewers to be of stone, brick and concrete, and the smaller of pipe.

LITTLE ROCK, ARK.—Bids are asked by E. A. Kingsley, Supt. Pub. Wks., until Oct. 2, for construction of 8,000 ft. of sewer in District No. 56. Estimated cost, $5,000.

LOCKHART, TEX.—HEFFRON & FALLIGANT, Galveston, Tex., has been awarded contract for the extension of the sewerage system in this city.

RYAN, OKLA.—See item under Light and Power Plants.

ABERDEEN, WASH.—The KEASEL CONSTRUCTION CO. has been awarded contract for laying a sewer in district E, at $20,000.

SAN FRANCISCO, CAL.—Contracts for sewer work are reported awarded as follows: To J. A. DOWLING, Russ Bldg., sewer in H St., from 20th to 40th Aves., at $83,601. Sewer will be of reinforced concrete 6 ft. 6 ins. in diameter. Sewer in Ocean Ave., from Lee to Arlington Sts., to E. J. GALLAGHER, of reinforced concrete 2 ft. 3 ins. in diameter, at $14,800; sewer in the Harbor View District, to W. HEAFY, at $36,101. Marsden Manson is City Engr.

EUREKA, UTAH.—Bids are asked until noon, Oct. 2, by the City Council, Anabel Mooney, City Recorder, for constructing a main pipe sewer for Eureka City. The approximate quantities are as follows: 3,000 cu. yds. of earth excavation, 50 cu. yds. of rock excavation, 6,450 lin. ft. of 8-in. vitrified pipe sewer, 40 cu. yds. of concrete masonry, 80 cu. yds. of brick masonry. George W. Riter, Desert National Bank Bldg., Salt Lake City, Utah, is Engr.

OGDEN, UTAH.—We are officially advised that bids were received as follows on Sept. 13 for doing the work in sewer district No. 100: J. P. O'Neill Construction Co., $11,700; Strange & Maguire, $10,850; WHEELWRIGHT CONSTRUCTION CO., Ogden, $10,448 (awarded contract). The work consists of 6,834.45 lin. ft. of 8-in. sewer pipe, 22 manholes and with average depth of trench about 11 ft. A. F. Parker is City Engr.

CHIHUAHUA, MEXICO.—See item under Streets and Roads.

STREETS AND ROADS.

(denotes that this work is advertised in Engineering News.)*

GREENBUSH, ME.—Bids are asked by the Selectmen of Greenbush until 2 p. m., Oct. 5, for building a section of state road about 6,600 ft. in length in Greenbush.

CONCORD, N. H.—Bids are asked by A. W. Dean, State Engr., Concord, until 5 p. m., Oct. 5, for constructing trap rock roads in Wilton, Merrimack and Milton, N. H., at a total cost of $11,100.

*BOSTON, MASS.—Bids are asked until 2.30 p. m., Oct. 11, by the Charles River Basin Commission, 367 Boylston St., Boston, Mass., for paving the roadway on the Charles River Dam in Boston and Cambridge, Mass. Hiram A. Miller is Ch. Engr.

HARTFORD, CONN.—Plans for state road work have been received at the office of the State Highway Commissioner as follows: 12,500 lin. ft. on the Shetucket Turnpike, in the town of Preston from Chandler & Palmer, Engrs.; 20,000 lin. ft. on the Bridgeport and Newtown Turnpike, in the town of Monroe, from McElroy & Kershaw; 5,300 lin. ft. on Jerome Ave., Bristol, Conn., from C. P. Waterman; 2,500 lin. ft. on West Goshen road, in the town of Goshen, from W. A. Williston; 1,000 lin. ft. on Main St., West Hartford, from A. B. Alderson; 1,500 lin. ft. in town of Wolcott, from S. H. Mackenzie.

Plans for 2,700 lin. ft. of state road work in the town of Prospect have been received in the office of the State Highway Commissioner, Capitol, from Samuel H. Mackenzie.

Contracts for the construction of state road work, bids for which were received in the office of the State Highway Commissioner Sept. 11 have been awarded as follows: Town of New Hartford, 12,907 lin. ft. macadam-telford road, including one 18-in., five 15-in., one 12-in. and four 24-in. tile culverts and two reinforced-concrete culverts, to the LANE CONSTRUCTION CO., Meriden, Conn., for $1.88 per lin. ft. for macadam, $2.48 for telford, 55 cts. per lin. ft. for rail, 75 cts. per lin. ft. for rubble drain, and $5.50 per cu. yd. for masonry. Town of Litchfield, 6,115 lin. ft. gravel-telford road, including five 18-in., one 12-in., one 20-in. and two 24-in. tile culverts and one reinforced-concrete culvert, to the PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, Conn., $2.50 per lin. ft. for gravel, $3.25 for telford, 50 cts. per lin. ft. for rubble drain, 40 cts. per lin. ft. for rail and $4 per cu. yd. for masonry.

A supplementary contract for 1,000 lin. ft. of macadam-telford road, 14 ft. wide, including one 12-in. tile culvert in the town of West Hartford, connecting with the Bloomfield trunk line system, has been awarded to the PIERSON ENGINEERING & CONSTRUCTION CO., Bristol, Conn., for $2.20 per lin. ft. for macadam and $2.60 for telford.

HARTFORD, CONN.—Bids for the construction of state road work were received at the office of the State Highway Commissioner Sept. 27 as follows: Town of Preston, 12,500 lin. ft. gravel-telford road, including two 12-in. c.-i. pipe culverts and four 20-in., one 18-in. and two 15-in. tile culverts, B. D. Pierce, Jr., Co., of Bridgeport, Conn., $2.65 per lin. ft. for gravel, $3.30 for telford 75 cts. per lin. ft. for rubble drain, 60 cts. per lin. ft. for railing, and 65 cts. per lin. ft. for cobble gutters; William B. Wilcox, Westerly, R. I., $2.48, $3.12, 80 cts., 45 cts., 65 cts.; Donahue Bros., Middletown, Conn., $1.98, $2.63, $1.18, 40 cts., 70 cts.; Ahern Bros., Norwich, Conn., $2.29, $2.90, $1.59, 58 cts., 60 cts.; A. D. Bridge's Sons, Hazardville, Conn., $2.87, $2.97, 75 cts., 60 cts., 50 cts.; O. T. Benedict, Pittsfield, Mass., $ 1.73, $2.33, 75 cts., 40 cts., 75 cts.

Town of Newtown, 27,800 lin. ft. gravel-telford road, including two 18-in., eight 15-in., two 12-in., eleven 24-in. and four 20-in. tile culverts; C. W. Tryon, Meriden, Conn., $2.35 per lin. ft. for gravel, $2.85 for telford, 65 cts. per lin. ft. for cobble gutter, 50 cts. per lin. ft. for railing, $1 per lin. ft. for rubble drain, $5 per cu. yd. for rubble wall-

ing, $1,350 for superstructure to two bridges; B. D. Pierce, Jr., Co., Bridgeport, $2.17, $2.77, 65 cts., 65 cts., 75 cts., $4.75, $1,500; F. Arrigoni & Bro., Durham, Conn., $2.25, $2.60, 65 cts., 50 cts, $1.25, $4.75 and $2,700; B. N. Beard Co., Shelton, Conn., $1.88, $2.50, 50 cts, 35 cts., $1.25, 35 and $8.40.

WATERBURY, CONN.—Bids are asked by the Board of Public Works until 8 p. m., Oct. 5, for laying a granite dimension block pavement on Freight St. R. A. Cairns is City Engr.

NEW YORK, N. Y.—Bids are asked until noon, Oct. 14, by George Cromwell, Pres. Boro. of Richmond, for regulating and grading Crescent Ave., between Jersey St. and Daniel Low Terrace, and for paving the roadway thereof with macadam pavement and laying gutters of vitrified brick on concrete foundation, etc.; also for regulating and grading Stone St., from Richmond road to St. Paul's Ave., Boro. of Richmond, and for paving with concrete on a foundation of ashes, etc.

Surveys and maps have been forwarded by Josiah A. Briggs, Ch. Engr., the Borough of the Bronx, to the Board of Estimate and Apportionment for completing the extension of Riverside Drive through Spuyten Duyvil and Riverdale, along Spuyten Duyvil Parkway to 245th St., thence along Fieldstone Ave., making this the automobile highway to Van Cortlandt Park.

NEW YORK, N. Y.—The following bids were received on Sept. 22 by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt pavement on a concrete foundation the roadway of the following streets and avenues with all work incidental thereto: Chauncey St., from Reid to Saratoga Aves., Uvalde Asphalt Paving Co., 1 Broadway, New York, $23,361; Barber Asphalt Co., 30 Church St., New York, $24,493; Cranford Company, 52 Ninth St., Brooklyn, $22,871; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, $22,536. South Portland Ave., from Dekalb Ave. to Hansen Pl., Uvalde Asphalt Paving Co., 1 Broadway, New York, $11,647; Barber Asphalt Paving Co., 30 Church St., New York, $12,251; Cranford Co., 52 Ninth St., Brooklyn, $14,790; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, $10,508. Tenth St., from Fifth Ave. to Prospect Pl., Barber Asphalt Paving Co., 30 Church St., New York, $32,357; Hastings Pavement Co., 25 Broad St., New York, $32,286. 34th St., from Third to Fifth Aves., Uvalde Asphalt Paving Co., 1 Broadway, New York, $10,844; Barber Asphalt Paving Co., 30 Church St., New York, $11,503; Cranford Co., 52 Ninth St., Brooklyn, $11,440; Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., Brooklyn, $10,371.

NEW YORK, N. Y.—The following bids were received by Lawrence Gresser, Pres. Boro. of Queens, on Sept. 17, for regulating, grading and flagging the south side of Central Ave., from Neilson to Seneca Sts., and Seneca St. to McNeil Ave.; also the north side of McNeil Ave., from Seneca St. to Hamilton Pl., and from Hamilton Pl. to McNeil Ave.: Uvalde Asphalt Paving Co., 1 Broadway, New York, $11,467; Barber Asphalt Paving Co., 30 Church St., New York, $12,947; Standard Waterproofing & Conduit Co., $12,751.

The following bids were received by John F. Ahearn, Pres. Boro. of Manhattan, on Sept. 20, for regulating and repaving with asphalt block pavement on a concrete foundation the roadway of the following streets and avenues: 98th St., from the west side of Amsterdam Ave. to the west side of Broadway: Barber Asphalt Paving Co., 30 Church St., New York, $86,389; Harlem Contracting Co., 2 Rector St., New York, $95,201. Second Ave., from the north side of 37th St. to the north side of 45th St., and from the north side of 33d St. to a point 66 ft. north of the north curb line of 58th St.: Barber Asphalt Paving Co., 30 Church St., New York, $71,398; :Harlem Contracting Co., 2 Rector St., New York, $62,872.

WASHINGTON, PA.—The County Commissioners have awarded contracts for road works as follows: The Monongahela-Donora Road, a distance of two miles, which is to be of brick, to THOMAS SWEENEY & CO., at $33,328; the Houston-Canonburg Road, a distance of 2,970 ft., to ABBOTT & MEYERS for $9,537; the Washington-Meadowlands Road, one mile, to the HALLEM CONSTRUCTION CO., at $11,642; the improvement of the Monongahela Pike, the Ginger Hill Section, one mile, to the DONORA CONSTRUCTION CO., at $13,039; the Monongahela Pike, 84th Sect., a distance of two miles, to N. C. HUNTER, at $18,593; the Claysville-Prosperity Road, a distance of two miles, to NEELAN & DALEY, at $22,204.

PITTSTON, PA.—We are officially advised that McCONVILLE & FITZPATRICK, 135 South Main St., Pittston, were awarded the following contracts on Sept. 21: One for Pittston for 15,839 yds. of brick paving, using Pittsburg Buffalo block, at $32,658; one for Dunmore Borough for 750 yds. of brick paving, using Nay Aug brick at $3,017.

UPPER MARLBORO, MD.—Bids will be received Oct. 5 by the County Commissioners, at Upper Marlboro for grading and macadamizing 1¼ miles of highway between Willis school house and Montgomery County line, known as Sandy Spring Road.

We are officially advised that the contract for macadamizing Riggs Road was let on Sept. 14 to M. J. GROVER LIME CO., of Lime Kiln, Md. The bids received at the same time for the Brandywine Road were rejected. Henry St. J. L. Briscoe is Clerk, Price George County.

BALTIMORE, MD.—The Board of Awards has awarded the contract for paving with sheet asphalt, a portion of Wolfe St., to EILBERT PAVING & CONSTRUCTION CO., for $8,972.

NEWPORT NEWS, VA.—The contract to pave West Ave. and 32d St. has been awarded to the WASHINGTON TILE CO., of Washington, D. C., at $2.06 per sq. yd. on a 4-in. sand base. George E. Via is Chn. of Highways and Sewers Com.

WINSTON SALEM, N. C.—The ATLANTIC BITULITHIC CO., of Norfolk, Va., has secured the contract for paving 36,000 sq. yds. Spruce and Cherry Sts., in Winston Salem, at $2.25 per sq. yd.

BURLINGTON, N. C.—Bids are asked by James P. Montgomery, City Clerk, until 10 a. m., Oct. 7, for the grading and macadamizing of several streets. The city has available for the purpose $25,000. A. F. Barrett is Mayor; the Carolina Engineering Co., L. C. Carter, Gen. Mgr., are Engrs.

GRIFFIN, GA.—The Mayor and Council have awarded the contract for paving main business streets of Griffin to the GEORGIA ENGINEERING CO., of Augusta, Ga., for about $70,000. Bids were opened Sept. 8.

JACKSONVILLE, FLA.—The Duval County Board of Commissioners has awarded the contract for constructing one mile each of brick paving on Pablo Beach and King Road at a cost of about $15,000, to the PENINSULA ENGINEERING CO.

FORT DADE (Egmont post-office), FLA.—We are officially advised that bids were received on Sept. 20 by the Constructing Q. M., Fort Dade, for constructing about 4,150 sq. ft. of granolithic walks. The lowest bidder was the Edwards Construction Co.

FORT MORGAN, ALA.—Bids are asked until 1.30 p. m., Oct. 15, by Capt. H. B. Chamberlin, Q. M., for constructing brick and wood road pavements and granolithic sidewalks of Fort Morgan.

HUNTSVILLE, ALA.—Bids will be received by Thomas Smith, Mayor, until Oct. 19, to pave, curb and gutter the sidewalks on Eustis St.

BIRMINGHAM, ALA.—The bids opened Sept. 15 for 19,700 sq. yds. asphalt oil binder macadam have been rejected and new bids will be received Oct. 6. Maury Nicholson is City Engr.

GREENWOOD, MISS.—The City Council has awarded the contract for nearly five miles of sidewalk and crossings to the OXFORD CONCRETE CONSTRUCTION CO., at 10 cts. per sq. ft. for sidewalks and 15 cts. per sq. ft. for crossings.

McCONNELSVILLE, OHIO.—E. A. PATTERSON, of Malta, has secured contract for constructing the Malta and Morganville Road at $10,999.

TOLEDO, OHIO.—Bids will be received until Oct. 19 by the Board of County Commissioners for grading, draining and macadamizing a road about 3¼ miles in length in Washington and Sylvania townships. D. T. Davies, Jr., is County Audr.

We are officially advised that the contract for macadamizing Reynolds Road in Adams Township has been awarded to R. C. ROACH.

CAMBRIDGE, OHIO.—Bids will be received at the office of the Commissioners of Guernsey County until noon, Oct. 5, for grading and macadamizing 0.76 miles of road in Jackson Township and one mile in Millwood Township. James C. Wonders is State Highway Comr.

ASHLAND, OHIO.—Bids will be received at the office of the Commissioners of Ashland County until noon, Oct. 6, for grading and macadamizing 0.95 miles of road in Vermillion Township.

CARROLLTON, OHIO.—Bids will be received at the office of the Commissioners of Carroll County until noon, Oct. 7, for grading and macadamizing or paving with brick 1.05 miles of road in Center Township. Estimated cost, $12,175.

BRYAN, OHIO.—Bids will be received at the office of the Commissioners of Williams County until noon, Oct. 8, for grading and macadamizing 2.31 miles of road in Jefferson Township. James C. Wonders is State Highway Comr., Columbus, Ohio. Estimated cost, $13,587.

RAVENNA, OHIO.—Bids were received on Sept. 16 by the Commissioners of Portage County for constructing the Ravenna-Freedom Road. The contract was awarded to PUTNAM & PRICE, of Marietta, Ohio, on their bid of $37,690, for rolled stone or gravel foundation, concrete curb, using Metropolitan block. James C. Wonders is State Highway Comr.

Bids were received at the same time for constructing the Kent-Brimfield Road. The contract has been awarded to T. J. NORMAN & SON, of Coshocton, Ohio, on their bid of $31,165, for rolled stone or gravel foundation, concrete curb, using Metropolitan block.

TROY, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 5, for the construction of all sidewalks, curb and gutter and alley crossings to be constructed by the said city of Troy during the year 1909. W. B. Freeman is Clerk.

YOUNGSTOWN, OHIO.—Bids are asked by the Board of Public Service until noon, Oct. 8, for paving Hilker St. W. H. McMillin is Clerk.

LOGAN, OHIO.—Bids are asked by the Village Council until noon, Oct. 4, for the improvement of Market St., from the north line of Hunter St. to the south line of Oak Grove Cemetery, by grading, curbing and paving the same with brick. Henry T. Leach is Clerk.

COVINGTON, IND.—Bids are asked by W. P. Gray, Audr. of Fountain County, until Oct. 15, for the construction of a gravel road in Davis Township, known as the Bowen Road.

DELPHI, IND.—Bids are asked by M. G. Haun, Audr. of Carroll County, until noon, Oct. 7, for the construction of a rock road in Deer Creek Township.

MT. VERNON, IND.—Bids are asked by the Commissioners of Posey County until 9 a. m., Oct. 9, for the construction of six gravel roads in Harmony Township and two gravel roads in Marrs Township. Paul Maier is County Audr.

WINAMAC, IND.—Bids are asked by the Commissioners of Pulaski County until Oct. 8 for the construction of a gravel road in White Post Township. E. S. Rees is County Audr.

SHELBYVILLE, IND.—Bids are asked by the City Council until 7.30 p. m., Oct. 5, for the improvement of both sides of Pike St., including intersection improvements by the construction of a combined cement curb and gutter from Pennsylvania St. to a point 198 ft. north of the north line of Elizabeth St. H. J. Clark is City Clerk.

INDIANAPOLIS, IND.—The Board of Park Commissioners opened bids on Sept. 17 for the construction of an embankment for a boulevard along the north bank of Fall Creek, from Central Ave. to 30th St. It was estimated there would be 41,260 cu. yds. of earth in the work. The bids submitted were as follows: J. Harry Roberts, $11,140; R. F. Pickens, $12,166; Mansfield Engineering Co., $17,741; W. F. Nugent & Bros., Louisville, Ky., $18,154, and Morris M. Defrees, $19,217.

A contract has been let by the Board to W. F. NUGENT & BROS. for the construction of a boulevard embankment along the north side of Fall Creek, from 23d to Illinois Sts.

FLINT, MICH.—The contract to pave ten blocks with Nelsonville brick, asphalt filler, has been awarded to J. T. LYNCH, of Flint, at $32,997. D. E. Newcombe is City Clerk.

CHICAGO, ILL.—We are officially advised that bids were received on Sept. 18 by John J. Hamberg, Comr. Pub. Wks., for paving with 800 sq. yds. No. 2 granite block on portion of Blue Island Ave. and 15th St. The contract has been let to JAMES A. SACKLEY CO., Chamber of Commerce Bldg., Chicago, at $3.37 a sq. yd. Walter G. Leininger is Engr. Bureau of Streets; M. J. Doherty is Supt. Bureau of Streets.

GARDNER, ILL.—The contract to construct about 8,000 sq. ft. of concrete sidewalks has been awarded to JOHN DEVERE, of Kankakee. J. R. Suffern is Village Clerk.

PEORIA, ILL.—On Sept. 14 the following bids were received by the Board of Local Improvements for paving South Fourth and Fifth Sts.: A. D. Thompson, Peoria, $45,262; Nelch & Egan, Springfield, $47,022; J. Streffler, Springfield, $47,157; Illinois Cement Co., Springfield, $47,535; E. R. Harding, Racine, $48,252.

EAST ST. LOUIS, ILL.—Bids are asked by the Board of Local Improvements until noon, Oct. 7, for improving Eleventh St., from Missouri to Division Aves.; Bowman Ave., from the westerly line of Ninth St. to the easterly line of Seventh St.; Seventh St., from southerly line of Bowman Ave. to the northerly line of Exchange Ave.; Exchange Ave., from the easterly line of Seventh St. to the westerly line of Ninth St.; Lincoln Ave., from the easterly rightofway line of the Venice & Carondelet R. R. Co. to the westerly line of 25th St. Frank B. Hannay is Clerk of Bd.

SUPERIOR, WIS.—The Board Public Works has awarded the contract for paving with macadam 17th St., to RUSSELL CONSTRUCTION CO., at $8,000.

JANESVILLE, WIS.—The contract for macadamizing and putting in cement gutters and sewers on Race St. has been awarded to P. W. RYAN, at $5,032. COCHEMS & NEBEL, of Sturgeon Bay, will put in the sewer work in Districts Nos. 11, 12 and 14. Their contract price was $4,417.

WHITE BEAR LAKE, MINN.—We are officially advised that bids were received on Sept. 20 by Edward G. Krahmer, County Audr., at St. Paul, for improving Lake Ave. at White Bear Lake. The contract has been awarded to WILLIAM DEVINE, of New Brighton, Minn.

FORT CROOK, NEB.—We are officially advised that the following bids were received on Sept. 22 by Capt. Joseph G. Gohn, Constr. Q. M., for the construction of 12,300 sq. ft. (more or less) of cement walks at Fort Crook: William S. Doll, New York Life Bldg., Omaha, Neb., 18⅝ cts. per sq. ft.; E. F. Stepp, Bellevue, Neb., 22½ cts.; Beebe Cement & Paving Co., Sherman Ave. and Belt Line, Omaha, Neb., 18¾ cts.; P. McArdle, 1901 Park Ave., Omaha, Neb., 18 cts.; Peter Sederberg, 2034 Castellar St., Omaha, Neb., 21 cts.; Jensen, Bay & Co., 1634 Madison St., South Omaha, Neb., 21 cts.

KANSAS CITY, MO.—The Board of Public Works has passed resolutions providing for grading, asphalt paving, macadam, Portland cement concrete paving, brick or brick block paving, artificial stone curbing and artificial stone sidewalks.

SEATTLE, WASH.—The following bids were received on Sept. 17 for paving 23d Ave., etc.: F. McLellan, Burke Block, Seattle, $141,280; P. J. McHugh, 17th St., Seattle, $133,293; Barber Asphalt Paving Co., White Bldg., Seattle, $158,373; A. R. Gibson, Seattle, $148,852; Independent Asphalt Paving Co., Pioneer Bldg., Seattle, $136,200.

The Board of Public Works awarded the following contracts on Sept. 21: Market St., etc., asphalt paving, to BARBER ASPHALT PAVING CO., White Bldg., Seattle, $92,909; maintenance for ten years, $2,232. 22d Ave., etc., asphalt paving, to INDEPENDENT ASPHALT PAVING CO., $2,301. Pinealls Pl., concrete sidewalks, W. H. SMITH & CO., $12,878. 23d Ave., etc., asphalt and sandstone paving to P. J. McHUGH, $133,293. Vernon Pl., planking, to L. P. GRAHAM, $794. Saladeli Ave., grading, etc., to S. NORMILE. Eleventh St. North, $11,050. 20th Ave., Northwest, planking, to F. W. FRAZIER, $2,147. Second Ave., West, etc., paving, to BARBER ASPHALT PAVING CO., $47,345.

OLYMPIA, WASH.—We are officially advised that bids were received on Sept. 15 by State Highway Board, Henry L. Bowlby, Secy., Olympia, Wash., for clearing, grubbing, grading and gravelling State Aid Road No. 4. The contract has been let to MILLS BROS., of Olympia, at $13,000.

SALEM, ORE.—The city is preparing to pave Twelfth St. with bitulithic.

RIVERSIDE, CAL.—Bids will be received by A. B. Pilch, Clerk Board County Supervs., until Oct. 13, for the construction of a portion of the Banning-Idyllwild Road.

NEW WESTMINSTER, B. C.—The City Council has authorized the expenditure of $398,000 for street improvements and waterworks extensions.

CHIHUAHUA, MEXICO.—Thos. J. Keena, U. S. Consul at Chihuahua, reports that a contract has been entered into between the city of Chihuahua, Chih., Mexico, and the COMPANIA BANCARIA BIENES RAICES, of Mexico City, for the paving of 20,000 square meters of certain streets of Chihuahua with asphalt, and for the improvement and extension of the water and sewerage systems of the city. The cost of this work is estimated at about $300,000.

MANUFACTURING PLANTS.

WAREHAM, MASS.—The F. W. BISHOP CO., 107 Foster St., Worcester, Mass., has been awarded the contract by the New Bedford & Agawam Finishing Co. for the cloth finishing mill to be erected at East Wareham by John W. Knowles of the Page Mill, New Bedford, Mass., Eugene S. Graves, late of the Textile school, and others, and the trenches on which the foundation of the mill will stand have been dug. Work on the preliminary construction and excavation is being rushed, and it is expected to have the plant in operation early next spring, possibly as early as February. The mill will employ 80 hands, and will be capitalized at between $200,000 and $250,000.

MYSTIC, CONN.—The Royal Linen Mills, Inc., will commence erection of a 3-story building soon at the McDonald shipyard property for the manufacture of its product and the mill will be in operation within a few months. Arrangements are now being made for the purchase of the land from Charles Barry, of New London. The Gilbert Transportation Co., which has a lease of the land, will continue to use that part of it which it is now using. The Royal Linen Mills, which have been incorporated under the laws of the state of Connecticut for $50,000, will be engaged entirely in the production of linen materials. Samuel D. Keene, of Providence, R. I., is interested. Capt. M. L. Gilbert is Pres. Bd. of Trade.

BUFFALO, N. Y.—We are officially advised that the Cataract Refining Co., 916 Mutual Life Bldg., will build a 1-story and basement fireproof addition to its oil and grease refining plant at Gilbert and Manitoba Sts. The building will be 80 x 100 ft., of brick and steel. Robert J. Reidpath is Arch., 29 Builders Exchange. The contract has been let to CHARLES BERRICK'S SONS, 1151 Main St., Buffalo. Cost, $10,000.

Charles A. Drescher, 106 Broadway, Buffalo, has let contract to the APPROVED CONCRETE CO. for construction of a 4-story and basement store and manufacturing building, 50 x 100 ft., of concrete construction, to be erected at 459 Broadway. Cost, $18,000.

The Niagara Machine & Tool Works, George A. Lantz, Pres., Superior and Randall Sts., has purchased a site and will erect a plant at Northland Ave. and the New York Central Belt Line. Plans are in preparation for the initial building, 75 x 300 ft., 1-story, of brick, concrete and structural steel construction.

JERSEY CITY, N. J.—The Hudson & Manhattan R. R. Co. has leased for a period of 15 years three plots of ground required for a storage yard, station entrances and exits at Henderson and Grove Sts., Jersey City, N. J.

PITTSBURG, PA.—The American Undercurrent Co., with a capital stock of $250,000, has been organized and will build a plant in Pittsburg. The incorporators are O. E. Longdorf, Paul I. Gundley and W. J. Dain, of Pittsburg. The company will manufacture a new underground trolley apparatus.

PHILADELPHIA, PA.—An enlargement is to be made by the Industrial Dyeing & Finishing Co., 3829 Frankford St. It will erect a 1-story addition to its plant, 52 x 144 ft., costing about $8,000.

BENWOOD, W. VA.—We are officially advised that M. A. Long, Arch., of the Baltimore & Ohio R. R. Co., Baltimore, Md., has prepared plans for ten shop buildings to be erected in connection with the terminal at Benwood Junction. The machine shop will be 60 x 90 ft.; power-house, 55 x 60 ft.; oil house, 30 x 64 ft.; storage room and office building, 30 x 70 ft., and the round-house will be 90 ft. in diameter. Bids for this work will be invited at once, and work is to be started the latter part of this month. The Benwood Junction buildings will be of brick and steel and will be fireproof. The contract has been let to P. FARRELL, Second National Bank Bldg., Cincinnati, Ohio. Cost, $130,000.

CHARLOTTE, N. C.—The Entwistle Mfg. Co., William Entwistle, Pres., Rockingham, has engaged Stuart W. Cramer, of this city, as Engr. and Arch.-in-Charge of planning, building and equipping the company's proposed mill. This plant will have 40,000 spindles, 1,000 looms, etc. The organization of the company with a capital stock of $500,000 was reported last month.

GREENSBORO, N. C.—C. M. Vanstory, W. S. Lyon, W. E. Allen, of Charlotte, N. C., and others, have subscribed $40,000, of a proposed capital of $50,000, for the purpose of establishing at Greensboro a shoe factory and to open a wholesale shoe house to handle the product of this and other shoe factories. Two grades of shoes will be made.

GRAHAM, N. C.—We are officially advised that the River Falls Cotton Mills Co. will erect brick cotton mills, the plant to consist of 40 buildings. The sizes of the buildings and cost have not been decided as yet. Contracts will be let soon. Charles E. Meades is interested. Water-power will be developed.

WINSTON-SALEM, N. C.—The Maline Knitting Mills Co. will build a bleachery with a daily capacity of 30,000 lbs. of knit goods. It has awarded the construction contract to J. F. ANGE, of Winston-Salem, and the plans call for a building, mill constructed, of brick, 60 × 170 ft., equipped with electric-lighting fixtures, steam-heating plant and bleachery machinery.

THOMASVILLE, N. C.—We are officially advised that the Jewel Cotton Mills will construct a cotton plant here. The capital stock is $250,000 and the plant is to be equipped with from 5,000 to 6,000 spindles for the manufacture of yarns. The buildings will be planned for double that. The mill building will be 78 × 309 ft., and it will require 200 HP. to operate the textile machinery. Either steam or electricity will be the driving power. The officers are: J. L. Armfield, of Thomasville, Pres.; W. W. Hapgood, of Charlotte, N. C., Vice-Pres.; T. J. Lillard, of Charlotte, Secy.-Treas.; Stuart W. Cramer, of Charlotte, who is one of the directors, is Engr.-Arch. The contract for construction has been let to T. C. THOMPSON & BROS., of Charlotte.

ROANOKE RAPIDS, N. C.—Lockwood, Greene & Co., Engrs., 93 Federal St., Boston, Mass., have about completed plans for the Patterson Mills Co., Roanoke Rapids, N. C., and the construction contracts will be awarded at once. The buildings will include: Main mill, two stories, 104 × 608 ft., with sawtooth roof construction over the weaving room; picker room, 50 × 100 ft.; dye house; 90 cottages for operatives; six cottages for overseers; fire pump and heating apparatus house, etc. The textile machinery will include 22,000 spindles, 750 looms, dyeing and finishing equipment, etc., all to be driven by electricity (about 1,000 HP.) on the production of ginghams. The Patterson Mills Co. is composed of cotton manufacturers and capitalists interested in other mills at Roanoke Rapids. It is capitalized at $650,000 and about that amount will be the cost of the completed plant. The organization of this company was among the reports of the past summer. Among those fuiterested are: S. F. Patterson, Gen. Mgr.; W. M. Habliston, Pres. of the National Bank of Virginia, Richmond, Va.; Charles Cohen, of M. Cohen, Son & Co., Richmond, Va., and T. C. Williams, also of Richmond.

ANDERSON, S. C.—It is stated that E. H. Shankin, Supt. of the Easley Cotton Mills is organizing a company for a large cotton mill to be established here. He intends to erect a mill to have 10,000 spindles and 350 looms.

BIRMINGHAM, ALA.—The Veitch-Matthews Engine Co. has filed articles of incorporation under the laws of Alabama, with a capital stock of $250,000. The headquarters of the company will be here. J. D. Hanby is Pres., George Veitch, Vice-Pres. and Gen. Mgr. The company proposes to begin operations at once.

MEMPHIS, TENN.—The West Tennessee Grain Co., of Kenton, Tenn., will move to Memphis the first of next year, it is stated. A 10-year lease has been obtained from the Frisco Railroad for the property formerly occupied by the Phoenix Cotton Oil Co. on the river front. The company will erect an elevator, a mill and a dryer in which freshly-shelled corn will be dried before marketing. The cost of these buildings, which will be ready for occupancy by Jan. 1, 1910, will be something like $30,000. E. W. Parks is Pres.; J. N. Moore, Secy.-Treas.

TOLEDO, OHIO.—The H. J. SPIEKER CO., 409 Michigan St., Toledo, has been awarded the contract for erection of the addition to the Overland plant on Central Ave. This addition, which is to be used as a finishing department and store room, will be L-shaped. It will be 397 ft. long, 91 ft. wide and three stories in height. The foot or bottom of the L is to be 61 × 91 ft. Work is to be begun on the building at once. This addition to the Overland plant has been in contemplation since the company acquired the Pope factory. J. N. Willys is Pres. About a month ago the company purchased five acres of ground north of the factory and it is on this land that the addition is to be built.

A site, consisting of 45 city lots in North Toledo has been sold by George E. Pomeroy, to the Buckeye Clay Pot Mfg. Co., which will soon begin the erection of a plant for the manufacture of clay pots used in glass making machinery. The block is bounded by Ontario, Michigan, Bassett and Pontiac Sts., and is located on the tracks of the Wheeling and Grand Trunk railroads. The plant will cover about an acre of land and will employ about 50 men. The officers of the company are W. K. Brownlee, of Toledo, Pres., and A. S. Zopfi, of Findlay, Secy. and Treas.

SOUTH BEND, IND.—The Chicago, South Bend & Northern Indiana Ry. Co. expects to place a contract soon for construction of a car house, repair shops, etc.

EVANSVILLE, IND.—Igiehart Bros., it is reported, will ask for bids soon for the erection of a milling plant on the site of the plant recently destroyed by fire. The estimated cost is $200,000.

CHICAGO, ILL.—Rueckheim Bros. & Eckstein have purchased 201 ft. of land on Sangamon St. which adjoins their building, located on Peoria St. The ground will be improved with a 6 or 8-story building, which will cost more than $100,000.

MOLINE, ILL.—A contract for the erection of its proposed 4-story factory building has been let by the Moline Automobile Co. to HENRY W. HORST, of Rock Island, Ill. Mr. Horst will begin construction at once with a view to having the building ready for occupancy by Dec. 1. The plant will have dimensions of 100 × 127 ft. and will contain 600,000 cu. ft. of space. It will be of brick mill construction. The estimated cost is $40,000. The building will stand east of the present factory building of the auto plant and will be used for both warehouse and manufacturing purposes.

WEST ALLIS, WIS.—The WORDEN-ALLEN CO., Port Washington Road, Milwaukee, has been awarded the general contract for erecting two new additions to blacksmith shops for Allis-Chalmers Co. at West Allis. Reinforced concrete and steel construction will be used. Dimensions, 100 × 370 ft.

The Sternberg Mfg. Co., Well and Burleigh Sts., Milwaukee, has awarded the general contract for erecting a plant to be erected at West Allis, Milwaukee, to PAUL RIESENS' SONS, University Bldg., Milwaukee. The plant will be of brick and concrete construction, 200 × 350 ft., one story high and will manufacture motor trucks and cigar box machinery.

APPLETON, WIS.—Herman Wildhagen, Arch., is preparing plans for a $50,000 addition to plant of Appleton Wire Works Co., to be 120 × 100 ft., of concrete construction, two stories high.

MASON CITY, IOWA.—The Mason City & Clear Lake Ry. Co. will start construction of the car house which it proposes to build at Emery, immediately. The building will be 210 × 55 ft. with four tracks and a storage capacity of 16 cars. Cement blocks will be used in the construction.

MINNEAPOLIS, MINN.—The Salisbury & Satterlee Co., manufacturers of beds and bedding, will erect an addition to its plant at Second Ave., S. E., and Main St., to cost $50,000. Work has begun on the excavation. Plans have been completed by Bertrand & Chamberlin, Archs., Bank of Commerce Bldg., for the building and contracts will be let in time to finish the work by Jan. 1, 1910. The new building will add 60,000 sq. ft. to the plant, making the total 160,000 ft. It will be 60 × 165 ft., six stories and basement high, of mill construction with brick walls. The first floor will be used for offices, the second for show rooms and the other floors for manufacturing and storage. In the completed plant, there will be five buildings. The present office building, 60 × 110 ft. in size, will be used for shipping and storage.

ST. PAUL, MINN.—The Hackney Mfg. Co., of St. Paul, is taking bids for the construction of a pressed brick, reinforced-concrete warehouse and factory to be built at University and Prior Aves. It will be 90 × 110 ft. with steam heating and electric lighting. P. J. Linhoff, St. Paul, is Arch. Cost, $35,000.

OMAHA, NEB.—Ralph Rogers and C. A. Overholt have bought through Shimer & Chase a site at Ralston for the erection of an automobile factory. The Rogers Automobile Co. will be incorporated soon with a capital of $250,000 and cars will be placed on the Omaha and western market for use next spring. The promoters state they will employ from 100 to 150 men at the outset. The factory will be located west of the Howard Stove Works and adjoining the Hudson car shops. Work will be started on the plant immediately and the buildings will be under way within 30 days.

FARGO, N. DAK.—The Fargo & Moorehead Street Ry. Co. has let the contract to BOWER BROS., Fargo, for the construction of a brick and stone extension to its car house. The addition will be 236 × 118 ft., and will cost $4,000.

FORT SMITH, ARK.—The Great Southern Cotton Mills, of Fort Smith, Ark., will build a large plant in that city. This enterprise is under the direction of I. S. Lowrey and W. H. Talmage, who are giving consideration to buildings, number of spindles and looms, etc. They hope to announce details soon.

BELLINGHAM, WASH.—The Single Service Package Corporation, 283 Madison St., Chicago, Ill., contemplates erecting a paper bottle factory here, with a capacity of 20,000 bottles a day.

LINDSAY, CAL.—Gifford & Morgan have had plans completed for a rolling mill to grind cereal products. It will be 32 × 30 ft. and will contain five bins with a capacity of 110 tons.

KOOSKIA, IDAHO.—H. C. Day, of Chicago, Ill., will build a pulp and paper mill at Kooskia. Permission has been secured from the War Department, Washington, D. C., to build a dam across the middle fork of the Clear Water River. It is reported that as soon as the capitalists pass on the plans construction will begin.

MONTREAL, QUE.—Press reports state that a company of Montreal shipping men will build a shipbuilding plant, capable of constructing men-of-war. Sir Montague Allan, Montreal, is interested.

TORONTO, ONT.—Francis J. Torrance, Vice-Pres. of the Standard Sanitary Mfg. Co., Bessemer Bldg., Pittsburg, Pa., has announced that plans had been completed for the erection of a new plant in Toronto, which will represent an outlay of $1,000,000 in addition to the warehouses and showrooms, valued at $225,000, already owned by the company in that city. E. L. Daws, Gen. Mgr. of the company, is in Toronto conferring with representatives of the Grand Trunk and the Canadian Pacific Railway companies for switches and sidings. He closed the deal for the purchase of 8½ acres of land at $42,500. In addition to this the city has closed a street, giving the company a piece of ground which will be utilized. The plant alone will cost $500,000 as now planned, not including equipment and cost of furnishing electric power from Niagara Falls. The plant will be fully equipped with electric motors and modern machinery. A steam power plant will be built to provide power in cases of emergency, but otherwise it will not be used. Bids will be advertised for in a short time and construction work will begin without delay. The plant will employ 500 men.

PORT COLBORNE, ONT.—The plans for the $50,000 Hedley-Shaw mills, to be built here, are ready, and bids will be asked for at once.

MISCELLANEOUS CONTRACTS.

(* *denotes that this work is advertised in Engineering News.*)

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

CRANE.—Washington, D. C.—See item under Light and Power Plants.

*QUARRY STRIPPING.—Philadelphia, Pa.—Bids are wanted on stripping about 50,000 yds. by the Schuylkill Stone Co., 614 Bulletin Bldg., Philadelphia.

LEVEE.—Sacramento, Cal.—Bids will be received at the office of M. J. Desmond, City Clk., until Oct. 4 for improving a portion of the Sacramento River front levee.

DITCH.—Crookston, Minn.—Bids will be received by H. J. Welte, County Audr., until Oct. 2, for digging and constructing county ditch No. 81. Estimated cost, $7,043.

WHARF.—Boston, Mass.—Bids are asked by the Board of Harbor and Land Commissioners, State House, until 2 p. m., Oct. 8, for building an oak pile wharf at South Boston flats.

DRY DOCKS.—Port Arthur, Ont., Can.—The Western Dry Docks & Shipbuilding Co. will at once start the erection of dry docks here to cost $1,000,000 J. C. Wallace, Cleveland, Ohio, is interested.

DREDGING.—Boston, Mass.—Bids will be received until 2 p. m., Oct. 1, by the Board of Harbor and Land Commissioners for dredging about 16,000 cu. yds., scow measurement, at South Boston flats.

*DREDGING PUMP.—St. Louis, Mo.—Bids are asked until noon, Oct. 19, by the Mississippi River Commission, Liggett Bldg., for furnishing centrifugal dredging pump. Lieut. C. H. Knight, Corps Engrs., U. S. A., is Secy. Comn.

SUBWAY.—Saskatoon, Sask.—Bids will be received by J. H. Trusdale, City Clk., until Oct. 6 (an extension from Sept. 22) for the construction of a subway under tracks of the Canadian Northern Ry. in this city. Geo. T. Clark, City Engr.

DITCH.—Beecher, Ill.—Bids will be received until Oct. 11 by Frank Hunte, Clk. Drainage Dist. No. 3, of the Town of Washington, at Beecher, for excavating and clearing out of the drainage ditch of Dist. No. 3, for a length of about 6½ miles.

*DREDGING.—Trenton, N. J.—Bids are asked by the Commissioner of Inland Waterways until noon, Oct. 19, for dredging (about 145,000 cu. yds.) a section of the proposed inland waterway from Cape May to Bay Head, N. J., near Holly Beach.

DAM.—New Britain, Conn.—The contract for raising Shuttle Meadow dam, bids for which were received on Sept. 15, has been awarded to the HARTFORD PAVING & CONSTRUCTION CO., Hartford, Conn., although not the lowest bidder, at $8,530.

TIMBER.—Kingston, Ont.—Bids will be received by J. A. McDonald, Pur. Agent, Canadian Locomotive Co., Ltd., until Oct. 15 for 40,000 lin. ft. wharf timber, ash, elm, hemlock, tamarac or poplar, to be not less than 12 ins. at large end and 10 ins. at small end.

*LIGHT-HOUSE.—Tompkinsville, N. Y.—Bids were received by the Light-House Engineer, Tompkinsville, on Sept. 3 for construction of the Lloyd Harbor light-house, Huntington Bay, N. Y. Lowest bidders were Snare & Triest, 143 Liberty St., New York, at $18,207.

DITCH.—Wabasha, Minn.—The contract for the state drainage ditch here has been awarded by the State Drainage Board. S. G. Iverson, St. Paul, Minn., Secy., to DAVIS & REDMON, Minneapolis, Minn., at their bid of $12,900. G. A. Ralph, St. Paul, is State Engr.

DAM.—Kippewa, Que.—Bids will be received until Oct. 7 by Napoleon Tessier, Secy., Dept. Public Works, Ottawa, Ont., for constructing a dam on the Kippewa River, County of Pontiac. J. L. Michaud, Resident Engr., Merchants' Bank Bldg., Montreal.

MONUMENT.—Albany, N. Y.—Bids are asked by the Board of Contract and Supply until 3 p. m., Oct. 4, for furnishing all materials and performing all the work necessary for the construction of a Soldiers' and Sailors' Memorial to be erected in Washington Park. Isidore Wachsman is Secy. of Board.

LEVEE.—New Orleans, La.—Bids were received on Aug. 30 by Capt. H. Burgess, Corps Engrs., U. S. A., 3338 St. Charles Ave., New Orleans, for constructing about 119,000 cu. yds. of new levee in the Lower Tensas Levee District. Bid of Robt. T. Clark, Natchez, Miss., at 27.98 cts. per cu. yd., has been recommended for acceptance.

*POLES.—Montreal, Que.—Bids are wanted by the Northern Commercial Telegraph Co., Ltd., 9 St. John St., Montreal, for delivering on railroad lines in the province of Nova Scotia, New Brunswick, Quebec, Ontario and eastern part of Manitoba, 60,000 35-ft. poles and 80,000 30-ft. poles, all of which must be at least 8 ins. in diameter at top of pole.

DREDGING, ETC.—Pensacola, Fla.—The Louisville & Nashville Railroad Co. has awarded contract to the SOUTHERN DREDGING CO., Mobile, Ala., for dredging around its four wharves. Contractors are to restore depth of 28 feet at low tide at three export wharves and dredge to depth of 28 ft. on east side of Central Wharf. Estimated cost, $100,000.

BULKHEAD.—Long Beach, Cal.—Bids will be received by the Board of Public Works until Oct. 1 for finishing the uncompleted portion of the combined bulkhead and sidewalk with parapet of reinforced cement concrete on Seaside Boulevard, from Chestnut Ave. to Long Beach Harbor, a distance of 1½ miles. Cost of work complete, about $100,000. E. P. Dewey, City Engr.

ROCK-CRUSHING PLANT.—Los Angeles, Cal.—Bids will be received until Oct. 18 by the Board County Supervisors for furnishing and erecting complete a rock-crushing plant, including sizing machinery and storage bins, with a guaranteed capacity of 500 tons per 8-hour day under average conditions, to be located near the station of Pasadena, on the Southern Pacific R. R. C. G. Keyes, County Clk.

*EXCAVATION, LEVEE.—Norfolk, Va.—Bids were received as follows by Maj. Mason M. Patrick, Corps Engrs., U. S. A., on Sept. 16 for rock and earth excavation, removing bulkhead, extending flume and reveting levee in diversion cut of Appomattox River, Va.: Johnston & Virden, Lewes, Del., $56,880; Atlantic Dredging Co., Philadelphia, Pa., $60,880; L. M. Lewis Dredging Co., Inc., Norfolk, Va., $54,150.

*GRADING.—St. Louis, Mo.—Bids were received on Sept. 20 by the University Heights Realty & Development Co. for grading, for resident purposes, a tract of land 2,000 × 3,600 ft., adjacent to the western city limits of St. Louis, Mo. A total of 810,000 cu. yds. is to be excavated, all of which is to be deposited upon the property graded. B. H. Colby, Engr., 812 Security Bldg., St. Louis. Contract has been awarded to JOHN SCOTT & SONS, Times Bldg., St. Louis, at 15.9 cts. per cu. yd.

CONDUIT.—Boston, Mass.—ANTONY CEFALO, 220 Devonshire St., has been awarded contract to construct the brook conduit in Grew Ave., between Hyde Park Ave. and Canterbury St., West Roxbury, at $8,556. Other bidders were: D. F. O'Connell, $9,400; Peter W. Hill, $9,705; West Roxbury Trap Rock Co., $9,802; McCarthy & Walsh, $9,858; D. E. Lynch, $9,937; Edw. Hayden, $10,026; John J. Falvey, $12,922; A. M. Cussack, $13,927; F. H. Farrington, $15,756, and W. H. Ellis, $21,275.

TUNNEL.—Trenton, N. J.—Bids were received by the Board of Chosen Freeholders, W. Scott Taylor, Dir., on Sept. 14, for furnishing material and constructing concrete abutments and wing walls, concrete protected steel superstructures, necessary grading of approaches, construction of drain, cement curb, and sidewalks, roadway, paving, etc., for a tunnel under the Belvidere division of Pennsylvania R. R. and Delaware & Raritan Canal feeder on line of Parkside Ave., Trenton. Frank J. Eppele, County Engr. Contract has been awarded to the DELAWARE RIVER QUARRY & CONSTRUCTION CO., Lambertville, N. J., at $39,500.

EMBANKMENT.—New York, N. Y.—Bids were received by Bird S. Coler, Pres. Boro. of Brooklyn, on Sept. 22 for furnishing all the labor and materials necessary for building an embankment, with all appurtenances, under the tracks of the Bushwick Branch of the Long Island R. R. and adjacent to Scott and Montrose Aves., in connection with the construction of a sewer in Scott Ave., from Newtown Creek, north of Metropolitan Ave., to St. Nicholas Ave., etc., in the City of New York, Boro. of Brooklyn. The bids were as follows: Newman & Carey, 213 Montague St., Brooklyn, $10,900; Robertson & Gerhart, $11,750.

U. S. POSSESSIONS.

METAL.—Panama.—Bids were received as follows on Sept. 7, by the Isthmian Canal Commission, Washington, for furnishing (a) 1,200,000 lbs. foundry pig iron No. 1, and 1,200,000 lbs. No. 2, and (b) 400,000 lbs. ingot copper: United States Steel Products Export Co., 50 Church St., New York, $18,240, on (a); Frank Samuels, Harrison Bldg., Philadelphia, (a) $23,880; American Metal Co., Ltd., 52 Broadway, New York, (b) $59,160; Nassau Smelting & Refining Works, 905 West 29th St., New York, (b) $57,760.

LUMBER.—Panama.—Bids were received as follows on Sept. 27, by the General Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing a quantity of bridge timber, in all about 600,000 ft. B. M., of Douglas fir, or long leaf yellow pine: A. S. Bacon & Sons, 2 Bay St., West, Savannah, Ga., $18,285; G. Elias & Bro., Buffalo, N. Y., $15,601; D. L. Gillespie & Co., Pittsburg, $18,207; S. E. Naylor & Co., Gulfport, Miss., $17,382; Robinson Lumber, Venner & Box Co., New Orleans, $19,698; Southern Sawmill Co., New Orleans, $19,067; W. R. Grace & Co., San Francisco, $12,480; E. H. Lewis Lumber Co., Seattle, Wash., $13,601. All bids are on pine, for delivery at Colon, except the last two, which are for fir, delivery at Balboa.

LUMBER.—Panama.—Bids were received as follows on Aug. 31, by the Isthmian Canal Commission, Washington, D. C., for furnishing 1,673,000 ft. B. M., of finished and rough lumber, for the Commission: A. S. Bacon & Sons, Savannah, Ga., $44,351, 150 days, pine. Bay Shore Lumber Co., Mobile, Ala., $42,520, 90 days, pine. Carter Lumber Co., Houston, Tex., $47,209, no time stated, pine. Chicago Lumber & Coal Co., St. Louis, Mo., $40,184, 60 days, pine. G. Elias & Bro., Buffalo, N. Y., $38,523, 150 days, fir. J. K. Joice & Co., Chicago, fir, $41,374, $44,185, pine $47,532; delivery, fir, 60 days; pine, 40 days. Long Bell Lumber Co., Kansas City, Kan., $41,600, 120 days, pine. C. I. Millard, St. Louis, $38,779, 72 days, pine. S. E. Naylor & Co., Gulfport, Miss., $42,441, 91 days, pine. Robinson Lumber Co., Ltd., New Orleans, part, $23.90 per M. D. L. Gillespie & Co., Pittsburg, pine or fir bidders' option; $37,029, 25 to 55 days, $36,610; 55 days. Charles Nelson & Co., San Francisco, $32,892, 42 days, fir. W. R. Grace & Co., San Francisco, $33,802, 42 days, fir. Time is an important element in the contract. Deliveries of pine to be made at Colon; of fir at Balboa.

SCRAP IRON AND STEEL.—Panama.—Bids were received as follows by the Isthmian Canal Commission, Washington, D. C., for the purchase of all the old iron and steel located on the Canal Zone, including aban-

doned locomotives, dump cars, tanks, barges, boilers, girders, dredges, sheet iron, parts of old machinery, and miscellaneous junk, the Commission retaining all copper, brass, nickel and other metals, and also rails and cast-iron easily detachable. The material is to be handled and collected by the Commission and shipped to New York, where it is to be delivered to the purchaser free of duty. It is estimated that the amount of unused material sold will be from 45,000 to 120,000 tons and the Commission will probably be able to collect and make shipment, during the three years covered by the agreement, at the rate of 700 tons every two weeks. Bids are submitted on the basis of the price per ton of 2,000 lbs., delivered at New York free of duty. Other bids are submitted on the basis of purchase of material on the Isthmus, etc.: Block Pollock Iron Co., Chicago, $8.77 per ton; Philip Broomfield Co., Chelsea, Mass., $10.20; Chicago House Wrecking Co., Chicago, $10; total for French machinery, $800,000; French and American machinery, $1,500,000; M. Cohen, St. Louis, Mo., $9.41; Columbia Smelting & Refining Works, New York, $12.29; $12.41 if contractor may withdraw after taking 45,000 tons; Hirsch Rolling Mill Co., National Bank of Commerce Bldg., St. Louis, $7.685; Cal. Hirsch & Sons Iron & Rail Co., St. Louis, $11.16; $12.66 if contract covers all metal; various qualified bids, $11.66, $13.30, $14.66, $8 to $12, $9.16, $9.10, $12.16; Henry A. Hitner's Son Co., Philadelphia, $12.53, qualified; International Iron & Metal Co., Newark, N. J., $10.13; Joseph Josephs & Bros. Co., Cincinnati, $13.515; $8.015 if delivered at Colon to be milled and resold to the Commission at stipulated prices; $13.765. Commission to deliver to contractor at Colon, where contractor will scrap and wreck and sent to New York at Commission's expense; $5.765, bidder to accept material on the Isthmus where it lies; David Kauffman & Sons Co., Elizabethtown, N. J., $9.41; B. J. McArdle, Albany, N. Y., $10.20; Ohio Iron & Metal Co., Chicago, $8.375; Panama Iron & Steel Co., Philadelphia, $10.06; Morris Rosenthal Inc., $9.25, bidder to accept material where it lies; Frank Samuel, Philadelphia, $10.11; S. Solomonson, San Francisco, Cal., $18.80; Samuel Spiro, Chicago, $10.61.

TRADE PUBLICATIONS.

INDUSTRIAL BUILDINGS.—D. C. N. Collins, 29 Broadway, New York City. 4 × 8 ins.; pp. 28; illustrated.

Mr. Collins devotes himself to all sorts of industrial buildings, manufacturing plants, railway shops, etc. This pamphlet shows some of his work and his references.

PANAMA CANAL.—Wood Drill Works, Paterson, N. J. 9 × 6 ins.; pp. 16; illustrated.

This is a series of views of the work on the Panama Canal, accompanied by a running description by Messrs. Warren Wood and Robert J. Wood, of the publishing company.

DUMP WAGONS.—The Troy Wagon Works Co., Troy, Ohio. 4 × 9 ins.; pp. 8; illustrated.

This catalog is devoted to the Troy Reversible Bottom-Dump Wagons, which are designed to be pulled by traction engine in trains of from four to eight wagons. Each wagon has a capacity of about 3 cu. yds.

REINFORCED CONCRETE.—Trussed Concrete Steel Co., Detroit, Mich. 5 × 7¾ ins.; pp. 126; illustrated.

Each year this company issues a hand-book of practice, the object of which, according to the preface of this 1909 edition, is "to present to the designer tables and information in such form as to be immediately available for use in actual designs."

WATER METERS.—Neptune Meter Co., 90 West St., New York. Stiff paper; 8 × 10¼ ins.; pp. 63; illustrated.

The various types of meters made by this company, together with their special features of design and construction and information regarding the handling and setting of meters, are given in this pamphlet. The illustrations include half-tones and line drawings.

WIRE ROPE.—American Steel & Wire Co., Chicago and New York. Paper; 9 × 11½ ins.; pp. 16; illustrated.

In addition to tables of weight, strength and price of wire rope of different types, this bulletin contains short articles, as follows: Wire rope in a theater, advantages and disadvantages of cone drums, cables for a dipper dredge in land reclamation work in Indiana, wire rope phenomena, and making iron in Sweden for American elevator cables.

ELECTRIC SIGNS.—General Electric Co., Schenectady, N. Y. Bulletin 4680. Paper; 8 × 10½ ins.; pp. 7; illustrated.

The usefulness and economy of the small tungsten-filament lamps has made their use on electric signs of great importance. The reduced voltage necessary, however, has required some little extra apparatus in the form of small transformers and compensating coils. All this is disclosed in this bulletin. The comparative cost of sign lighting with carbon and tungsten lamps is shown by means of curves, and the superiority of the tungsten over the carbon lamp is clearly proved.

For other Proposal Advertisements see pages 51, 52, 53, 54, 55, of Advertisements and Construction News page 120.

BRIDGE.

Vancouver, B. C.

Bids addressed to the Mayor and Council of the City of Vancouver, British Columbia, Canada, for the building of a bridge over False Creek, in that City, between Bridge Street and Beatty Street, will be received up to 4 p. m. of October 25th, 1909.

The structure is to be about 3,375 feet long between abutments and is composed of a 264 ft. center bearing, electrically operated swing span, carried on concrete piers which are to be sunk by the pneumatic process, and sixty-six deck plate girder spans varying from 35 to 80 ft. in length, and supported on steel bents resting on concrete pedestals of which sixty are to be placed on piles and fifty on earth. Approaches, each about 150 feet long, consist of concrete retaining walls and abutments with earth fill. The bridge carries two wooden sidewalks, each 6 feet wide, and a roadway 44 feet wide, paved with creosoted wood blocks on creosoted planks and ties. Two electric railway lines are at the center of the roadway and the bridge will be lighted electrically.

Tenders will be received on the following basis:

1st. For metal work and all other superstructure materials erected.

2d For substructure complete.

Plans, specifications and bidding papers will be on file in the City Engineer's office at Vancouver, or may be obtained from Waddell & Harrington, Consulting Engineers, Kansas City, Missouri, by sending with request a guaranteed deposit check of twenty-five dollars ($25.00), which amount will be refunded if papers be returned in good order.

All tenders are to be sealed and marked on the outside, "Tenders for Cambie Street Bridge."

Each bidder must deposit with his tender, cash or a properly certified check for a sum equal to ten per cent. (10%) of the aggregate amount of said tender, made payable to the Mayor of the City of Vancouver, as a guarantee that he will enter into contract, if the work be awarded him. The City does not bind itself to accept the lowest or any tender.

Newspapers inserting this advertisement without authority will not be paid for same.

CONCRETE BRIDGE.

Asheville, N. C.

Sealed proposals for a Reinforced Concrete Bridge and Viaduct across French Broad River and Southern Railway at Asheville, N. C., will be received by the Board of Commissioners of Buncombe County at Asheville till Friday, Oct. 8, 1909, at 10 o'clock, and then publicly opened. Length of bridge, 800 to 975 feet; roadway, 24 to 30 feet; one sidewalk. Bridge to have ample capacity for a concentrated load of 24 tons, 100 pounds per square foot, and two 35-ton electric cars en train. Bidders to submit their own plans. Contractor to give satisfactory guaranty of capacity of bridge, execution of work, etc. Funds approximately $70,000. Right to reject any or all bids received. For further information address R. P. JOHNSTON, Engineer, Asheville, N. C.

DREDGING.

OFFICE OF COMMISSIONER OF INLAND WATERWAYS.
STATE OF NEW JERSEY.

State House Trenton, N. J., Sept. 21, 1909.

Sealed proposals for dredging a section of the proposed Inland Waterway from Cape May to Bay Head, N. J., near Holly Beach, Cape May County, will be received at this office until 12 o'clock noon, Oct. 19, 1909, and then publicly opened. The approximate amount of material to be removed is 145,000 cubic yards, place measurement. Further information on application.

HARRY W. SCHNEIDER,
Commissioner.
HENRY J. SHERMAN, Engineer.

WATER-WORKS.

Distributing System, Wilmington, N. C.

Sealed proposals will be received for materials and labor in connection with the above work by the Water and Sewerage Commission of Wilmington, N. C., until twelve (12) o'clock, noon, of Thursday, October 21st, 1909, when they will be publicly read. Plans and specifications may be consulted and blank forms procured at the office of the Commission, Wilmington, N. C., or at the offices of the Consulting Engineers, and to whom requests for additional information should be addressed.

A set of prints, consisting of map and details, may be procured by addressing direct the Southern Map Company, Southern Building, Wilmington, N. C., by prospective bidders at a net cost sixty cents (60) delivered.

Each proposal must be accompanied by a certified check in the sum of five (5) per cent. of the amount bid as evidence of good faith upon the part of the bidder.

The Commission reserves the right to reject any and all bids, or waiving informalities, to accept any which may seem to it to be to the best interest of the City of Wilmington.

WATER AND SEWERAGE COMMISSION
CHAS. W. WORTH, Ch'm'n.,
Wilmington, N. C.
HAZLEHURST & ANDERSON,
Consulting Engineers,
Atlanta, Ga., and Wilmington, N. C.

MANUFACTURERS' OPPORTUNITY

Mechanical engineer of executive ability, 17 years' experience in manufacturing and selling, is obliged to visit England and the continent and is prepared to conduct investigations of European methods and appliances. An unusual opportunity is offered American manufacturers desiring to extend their business or establish agencies. Address, "KA 14," Engineering News, New York. 14-1t

PAVING THE ROADWAY ON THE CHARLES RIVER DAM.

COMMONWEALTH OF MASSACHUSETTS.
CHARLES RIVER BASIN COMMISSION.

Sealed proposals will be received at the office of the Charles River Basin Commission, 367 Boylston Street, Boston, Mass., until 2.30 o'clock P. M., of Monday, October 11, 1909, for paving the roadway on the Charles River Dam in Boston and Cambridge, Mass. The work to be done includes the furnishing and placing of about 6,200 cubic yards of gravel, 15 catch-basins, 2,700 linear feet of granite edgestones, 9,000 square yards of granite block paving and 2,200 yards of brick sidewalks. Pamphlets containing futher information for bidders, forms of proposal, contract and specifications will be ready about October 1 and will be mailed to contractors who apply to the Chief Engineer, or may be obtained at his office, 367 Boylston Street, Boston, where also plans may be seen. The printed form must be used in making proposals. The Commission reserves the right to reject any or all proposals and to accept the proposal deemed best for the Commonwealth. HENRY D. YERXA, Chairman, JOSHUA B. HOLDEN, EDGAR R. CHAMPLIN, Charles River Basin Commission; HIRAM A. MILLER, Chief Engineer; WILLIAM S. YOUNGMAN, Secretary.

QUARRY STRIPPING.

Philadelphia, Pa.

Wanted contractor to bid on stripping upwards of 50,000 yards, only those equipped with steam shovels, locomotives, etc., need apply. Full details and inspection on application to SCHUYLKILL STONE CO., 614 Bulletin Building, Philadelphia.

U. S. ENGINEER OFFICE, Mobile, Ala., September 16, 1909.—Sealed proposals for construction of riprap groins for Sea Walls at Fort Morgan and Fort Gaines, Ala., will be received at this office until 11 o'clock a. m., October 18, 1909, and then publicly opened. Information on application. H. JERVEY, Maj., Engrs.

WATERPROOFING.

Asheville, N. C., Sept. 20, 1909.

Sealed proposals will be received at the office of the City Clerk, Asheville, N. C., until Oct. 15th, 1909, for making watertight a 5,000,000-gallon concrete reservoir, built by the Faragher Eng. Co. For full information apply to B. M. Lee, City Engineer.

J. A. CAMPBELL, Mayor.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 23, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 3d day of November, 1909, and then opened, for the construction (including plumbing, gas piping, heating apparatus, electric conduits and wiring and standard clock system) of the U. S. Post Office and Court House building at Albany, Georgia, in accordance with the drawings and specifications, copies of which may be obtained from the Custodian of Site, at Albany, Ga., or at this office at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., September 13, 1909.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 25th day of October, 1909, and then opened, for all the labor and materials required for the construction (complete) of the U. S. Post Office at Pittsfield, Massachusetts, in accordance with the drawings and specification, copies of which may be had at this office or at the office of the postmaster at Pittsfield, Mass., at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect.

PROPOSALS FOR CENTRIFUGAL DREDGING PUMP.—Mississippi River Commission, Lizgett Building, St. Louis, Mo., Sept. 29, 1909.—Sealed proposals for furnishing centrifugal dredging pump will be received here until 12 noon, standard time, Oct. 19, 1909, and then publicly opened. Information furnished on application. C. H. KNIGHT, Lieut., Engrs., Sec'y.

PROPOSALS FOR STEEL PONTONS.—Mississipni River Commission, Liggett Building, St. Louis, Mo., Sept. 22, 1909.—Sealed proposals for furnishing steel pontons will be received here until 12 noon, standard time, Oct. 12, 1909, and then publicly opened. Information furnished on application. C. H. KNIGHT, Lieut., Engrs., Secy.

Situations Open

WANTED—Civil engineer with broad experience in the manufacture and installation of steam and electric railway track material. We want a man who has these qualifications well developed and who combines with them initiative and executive ability and will enable him to get results out of others as well as himself. We want the right man; so state your qualification fully; give references and salary expected. All communications will be held confidential. Address "B. A. 14," Engineering News, New York. 14-2t

WANTED—At once on large building operation a first class rigger; must be familiar with all types of derricks, scaffolding and general rigging. WHITNEY-STEEN CO., A. C. James Estate, Newport, R. I. 14-1t

EXCEPTIONAL OPPORTUNITY in a New York building concern for several first-class draftsmen and checkers on shop drawings for structural steel work for buildings; also several draftsmen for light and ornamental iron work; liberal salaries to competent men; only experienced men need apply. Address "A. A. 14," Engineering News, New York. 14-1t

WANTED—Salesman about thirty years of age, of good address, progressive, temperate, with knowledge of Yellow Pine Lumber and Creosoting business if possible. However, the latter not absolutely essential if have other qualifications. Please reply, giving experience and references. Address "C. A. 14," Engineering News, New York. 14-1t

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